

---

---

## References

- Aalen, F.H.A., 1984. Vernacular Buildings in Cephalonia, Ionian Islands, Greece. *Journal of Cultural Geography* 4 (2), 56–72.
- Abela, G.F., 1647. *Della descrizione di Malta*. Malta: Paolo Bonacota.
- Abel-Schaad, D. & J.A. López-Sáez, 2013. Vegetation changes in relation to fire history and human activities at the Peña Negra mire (Bejar Range, Iberian Central Mountain System, Spain) during the past 4,000 years. *Vegetation History and Archaeobotany* 22, 199–214.
- Aguilar, J., J.L. Guardiola, E. Barahona, C. Dorrnsoro & F. Santos, 1983. Clay illuviation in calcareous soils, in *Soil Micromorphology*, eds. P. Bullock & C.P. Murphy. Berkhamsted: A.B. Academic, 541–50.
- Aitken, M.J., 1983. Dose rate data in SI units. *PACT: Journal of the European Study Group on Physical, Chemical and Mathematical Techniques Applied to Archaeology* 9, 69–76.
- Albert, P.G., E.L. Tomlinson., V.C. Smith, A. Di Roberto, A. Todman, M. Rosi, M. Marani, W. Muller & M.A. Menzies, 2012. Marine-continental tephra correlations: Volcanic glass geochemistry from the Marsili Basin and the Aeolian Islands, Southern Tyrrhenian Sea, Italy. *Journal of Volcanology and Geothermal Research* 229 (Supplement C), 74–94.
- Alberti, G., 2017. TRANSIT: a GIS toolbox for estimating the duration of ancient sail-powered navigation. *Cartography and Geographic Information Science* 46, 1–19.
- Alberti, G., R. Grima & N.C. Vella, 2018. The use of geographical information system and 1860s cadastral data to model agricultural suitability before heavy mechanization. A case study from Malta. *Plos One* 13 (2), 1–28.
- Alberts, E.E., W.C. Moldenhauer & G.R. Foster, 1980. Soil aggregates and primary particles transported in rill and interrill flow. *Soil Science Society of America Journal* 44, 590–5.
- Aldenderfer, M.S., 1998. *Montane Foragers. Asana and the South-Central Andean Archaic*. Iowa City: University of Iowa Press.
- Alessio, A., L. Allegri, F. Bella, G. Calderoni, C. Cortesi, G. Dai Pra, D. De Rita, D. Esu, M. Follieri, S. Improta, D. Magri, B. Narcisi, V. Petrone & L. Sadori, 1986. 14C dating, Geochemical Features, Faunistic and Pollen Analyses of the uppermost 10 m Cores from Valle di Castiglione (Roma, Italy). *Geologica Romana* 25, 287–308.
- Allen, M.J. & B. Eastabrook, 2017. (Some thoughts on) using molluscs for landscape reconstruction and ecology in Malta, in *Molluscs in Archaeology: Methods, Approaches and Applications*, ed. M.J. Allen. Oxford: Oxbow Books, 165–78.
- Allen, M.J. & R.I. Macphail, 1987. Micromorphology and magnetic susceptibility studies: their combined role in interpreting archaeological soils and sediments, in *Soil Micromorphology*, eds. N. Fedoroff, L.M. Bresson & M-A. Courty. Paris: Association Francaise pour l'Etude du Sol, 669–76.
- Alley, R.B., P.A. Mayewski, T. Sowers, M. Stuiver, K.C. Taylor & P.U. Clark, 1997. Holocene climatic instability; A prominent, widespread event 8200 yr ago. *Geology* 25, 483–6.
- Alexander, D., 1988. A review of the physical geography of Malta and its significance for tectonic geomorphology. *Quaternary Science Reviews* 7, 41–53.
- Aloisio, M.A., 2007. A Test-Case for Regional Market Integration? The Grain Trade between Malta and Sicily in the Late Middle Ages, in *Money, Markets and Trade in Late Medieval Europe: Essays in Honour of John H. A. Munro*, eds. L. Armstrong, I. Elbl, I. & M.M. Elbl. Leiden: Brill, 297–309.
- Ammerman, A., 1985. *The Acconia Survey: Neolithic settlement and the Obsidian Trade*. London: Institute of Archaeology.
- Ammerman, A.J. & Cavalli-Sforza, L. 1984. *The Neolithic Transition and the Genetics of Population in Europe*. Princeton: Princeton University Press.
- Anastasi, M., (ed.) 2019. *Pottery from Roman Malta*. Oxford: Archaeopress.
- Anastasi, M. & N.C. Vella, 2018. Olive oil production technology in Roman Malta, in *The Lure of the Antique: Essays on Malta and Mediterranean Archaeology in Honour of Anthony Bonanno*, eds. N.C. Vella, A.J. Frendo & H.C.R. Vella. Leuven: Peeters, 275–300.
- Anderson, E.W., 1997. The wied: a representative Mediterranean landform. *GeoJournal* 44, 111–14.
- Anderson, E.W. & P.J. Schembri, 1989. *Coastal zone Survey of the Maltese Islands report*. Beltissebħ, Malta: Planning Services Division, Works Department.

- Angulo, R.J., M.C. De Souza, M.L. Assine, L.C.R. Pessenda & S.T. Disaro, 2008. Chronostratigraphy and radiocarbon age inversion in the Holocene regressive barrier of Paraná, southern Brazil. *Marine Geology* 252 (3), 111–19.
- Argant, J., J.A. López-Sàez & P. Bintz 2006. Exploring the ancient occupation of a high altitude site (Lake Lauzon, France): comparison between pollen and non-pollen palynomorphs. *Review of Palaeobotany and Palynology* 141, 151–63.
- Ariano, B., R. McLaughlin, R. Power, J. Stock, B. Mercieca-Spiteri, S. Stoddart, C. Malone & D. Bradley, in press. aDNA: Origins, in *Temple People. Bioarchaeology, Resilience and Culture in Prehistoric Malta*, eds. S. Stoddart, R. Power, J. Thompson, B. Mercieca, R., McLaughlin & C. Malone. Cambridge: McDonald Institute for Archaeological Research.
- Arnon, A., T. Svoray & E.D. Ungar, 2011. The spatial dimension of pastoral herding: A case study from the northern Negev. *Israel Journal of Ecology & Evolution* 57 (1–2), 129–49.
- Armstrong, K., C. Tsigonaki, A. Sarris, A. & N. Coutsinas, 2016. Site Location Modelling and Prediction on Early Byzantine Crete: Methods Employed, Challenges Encountered, in *Keep the Revolution Going. Proceedings of the 43rd Annual Conference on Computer Applications and Quantitative Methods in Archaeology*, eds. S. Campana, R. Scopigno, G. Carpentiero & M. Cirillo. Oxford: Archaeopress, 659–68.
- Ashby, T., 1915. Roman Malta. *Journal of Roman Studies* 5, 25–80.
- Ashby, T., R.N. Bradley, T.E. Peet & N. Tagliaferro, 1913. Excavations in 1908–11 in various megalithic buildings in Malta and Gozo. *Papers of the British School at Rome* 6, 1–126.
- Asioli, A., F. Trincardi, J.J. Lowe & F. Oldfield, 1999. Short-term climate changes during the last glacial-Holocene transition: Comparison between Mediterranean records and the GRIP event stratigraphy. *Journal of Quaternary Science* 14, 373–81.
- Asouti, K., C. Kabukcu, C.E. White, I. Kuijt, B. Finlayson & C. Makarewicz, 2015. Early Holocene woodland vegetation and human impacts in the arid zone of the southern Levant. *The Holocene* 25 (10), 1565–80.
- Avery, B.W. & C.L. Bascomb (eds.), 1974. *Soil Survey Laboratory Methods*. Harpenden: Soil Survey Technical Monograph No. 6.
- Azzopardi, E. 2013. The Shipwrecks of Xlendi Bay, Gozo, Malta. *International Journal of Nautical Archaeology* 42 (2), 286–95.
- Azzopardi, G., 2006–7. Cremation burials in Early Bronze Age Malta. *Malta Archaeological Review* 8, 9–17.
- Azzopardi, G., 2014. 'Religious Landscapes and Identities of the Maltese Islands in a Mediterranean Context: 700 B.C. – A.D. 500.' Unpublished PhD thesis, University of Durham.
- Azzopardi, G. & A. Pace, 2008. 'Economic landscapes of the Maltese Islands during antiquity: a survey of ancient wine presses.' Poster presented at the XVII Congresso Internazionale di Archeologia Classica, Rome.
- Baddeley, A., E. Rubak & R. Turner, 2016. *Spatial Point Patterns. Methodology and Applications with R*. Boca Raton: CRC Press.
- Baillie, M.G.L., 1999. *Exodus to Arthur: Catastrophic Encounters with Comets*. London: B.T. Batsford.
- Baldassini, N. & A. Di Stefano, 2015. New insights on the Oligo–Miocene succession bearing phosphatic layers of the Maltese Archipelago. *Italian Journal of Geosciences* 134 (2), 355–66.
- Barber, D.C., A. Dyke, C. Hillaire-Marcel, A.E. Jennings, J.T. Andrews, M.W. Kerwin, G. Bilodeau, R. McNeely, J. Southon, M.D. Morehead & J.-M. Gagnon, 1999. Forcing of the cold event of 8,200 years ago by catastrophic drainage of Laurentide lakes. *Nature* 400, 344–8.
- Barker, G., 1995. *A Mediterranean Valley: Landscape Archaeology and Annales History in the Biferno Valley*. London: Leicester University Press.
- Barker, G., 1996. *The Biferno Valley: Archaeology as Annales History in a Mediterranean Valley*. Leicester: Leicester University Press.
- Barker, G. & C.O. Hunt, 1995. Quaternary valley floor erosion and alluviation in the Biferno valley, Molise, Italy: the role of tectonics, climate, sea level change and human activity, in *Mediterranean Quaternary River Environments*, eds. J.C. Woodward, M.G. Macklin & J. Lewin. Rotterdam: Balkema, 145–57.
- Barker, G., D. Gilbertson, B. Jones & D.J. Mattingley (eds.), 1996. *Farming the Desert: The UNESCO Libyan Valleys Survey*. Paris: UNESCO.
- Barker, G., D. Gilbertson & D. Mattingly (eds.), 2007. *Archaeology and Desertification: The Wadi Faynan Landscape Survey, Southern Jordan*. (CBRL Levant Series Volume 6.) Oxford: Oxbow Books, 445–64.
- Barratt, R., R. McLaughlin, C. Malone & S. Stoddart, 2018. Celebrations in Prehistoric Malta. *World Archaeology* 50 (2), 271–84.
- Barratt, R., Malone, C., McLaughlin, R. & Parkinson, E., 2020. Hypogea and the clubhouse: Neolithic Malta's houses of the living and houses of the dead. In Barclay, A., Field, D. & Leary, J. (eds.), *Houses of the Dead*. Oxford: Oxbow, 15–38.
- Barrowclough, D.A. & C. Malone (eds.), 2007. *Cult in context: reconsidering ritual in archaeology*. Oxford: Oxbow Books.
- Bauer, A.M. & M. Bhan, 2018. *Climate without Nature: A Critical Anthropology of the Anthropocene*. Cambridge: Cambridge University Press.
- Behrensmeyer, A.K. & S.M. Kidwell, 1985. Taphonomy's contributions to paleobiology. *Paleobiology* 11, 105–19.
- Bell, T., A. Wilson & A. Wickham, 2002. Tracking the Samnites: Landscape and Communications Routes in the Sangro Valley, Italy. *American Journal of Archaeology* 106 (2), 169.
- Bengtsson, L. & M. Enell, 1986. Chemical analysis, in *Handbook of Holocene palaeoecology and palaeohydrology*, ed. B.E. Berglund. Chichester: John Wiley, 323–451.
- Benito, G., R. Brazdil, J. Herget & M.J. Machado, 2015. Quantitative historical hydrology in Europe. *Hydrology and Earth System Science* 19, 3517–39.
- Benjamin, D.J., J.O. Berger & V.E. Johnson, 2018. Redefine statistical significance. *Nature Human Behaviour* 2, 6–10.

- Benjamin, J., A. Rovere, A. Fontana, S. Furlani, M. Vacchi, R.H. Inglis, E. Galili, F. Antonioli, D. Sivan, S. Miko, N. Mourtzas, I. Felja, M. Meredith-Williams, B. Goodman-Tchernov, E. Kolaiti, M. Anzidei & R. Gehrels, 2017. Late Quaternary sea-level changes and early human societies in the central and eastern Mediterranean Basin: An interdisciplinary review. *Quaternary International* 449, 29–57.
- Benton, M. & D.A.T. Harper, 2009. *Introduction to palaeobiology and the fossil record*. Wiley-Blackwell, Oxon.
- Bennett, J.M., 2020. 'Testing Terraces: Managing and Sustaining the Agrarian Environment in the Maltese Archipelago.' Unpublished PhD thesis, Department of Archaeology, University of Cambridge.
- Berger, J.-F. & J. Guilaine, 2009. The 8200 cal BP abrupt environmental change and the Neolithic transition: A Mediterranean perspective. *Quaternary International* 200, 31–49.
- Bernabò Brea, L., 1966. Abitato Neolitico e insediamento Maltese dell'Eta del Bronzo nell'isola di Ognina (Siracusa) e i rapporti fra la Sicilia e Malta dal XVI al XXIII Sec. a.C. *Kokalos* 12, 40–69.
- Bertoldi, R., 1980. Le vicende vegetazionali e climatiche nella sequenza paleobotanica würmiana e post-würmiana di Lagdei (Appennino settentrionale). "L'Ateneo Parmense." *Acta Naturalis* 16, 147–75.
- Bertran, P., 2004. Soil erosion in small catchments of the Quercy region (southwestern France) during the Holocene. *The Holocene* 14, 597–606.
- Beug, H.-J., 2004. *Leitfaden der Pollenbestimmung für Mitteleuropa und Angrenzende Gebiete*. München: Verlag Dr. Friedrich Pfeil.
- Bevan, A. & J. Conolly, 2004. GIS, archaeological survey, and landscape archaeology on the island of Kythera, Greece. *Journal of Field Archaeology* 29 (1–2), 123–38.
- Bevan, A. & J. Conolly, 2013. *Mediterranean Islands, Fragile Communities and Persistent Landscapes*. Cambridge: Cambridge University Press.
- Bevan, A., J. Conolly, S. Colledge & A. Stellatou, 2013. The long-term ecology of agricultural terraces and enclosed fields from Antikythera, Greece. *Human Ecology* 41, 255–72.
- Bicho, N., J.ascalheira & C. Gonçalves, 2017. Early Upper Paleolithic colonization across Europe: Time and mode of the Gravettian diffusion. *PLOS ONE* 12(5), e0178506.
- Bini, M., G. Zanchetta, A. Persoiu, R. Cartier, A. Catala, I. Cacho, J.R. Dean, F. Di Rita, R.N. Drysdale, M. Finne, I. Isola, B. Jalali, F. Lirer, D. Magri, A. Masi, L. Marks, A.M. Mercuri, O. Peyron, L. Sadori, M-A. Sicre, F. Welc, C. Zielhofer & E. Brisset, 2018. The 4.2 ka BP event in the Mediterranean region: an overview. *Climate of the Past Discussions* 15, 1–36.
- Bintliff, J., 1977. *Natural Environment and Human Settlement in Greece*. Oxford: British Archaeological Reports, Supplementary Series 28.
- Bintliff, J., 1992. Erosion in the Mediterranean lands: a reconsideration of pattern, process and methodology, in *Past and Present Soil Erosion: Archaeological and Geographical Perspectives*, eds. M.G. Bell & J. Boardman. Oxford: Oxbow Books, 125–31.
- Bintliff, J., 2005. Human impact, land-use history, and the surface archaeological record: A case study from Greece. *Geoarchaeology* 20, 135–47.
- Blaauw, M., 2010. Methods and code for 'classical' age-modeling of radiocarbon sequences. *Quaternary Geochronology* 5 (5), 512–18.
- Blaauw, M. & J.A. Christen, 2011. Flexible paleoclimate age-depth models using an autoregressive gamma process. *Bayesian Analysis* 6 (3), 457–74.
- Blaauw, M., K.D. Bennett & J.A. Christen, 2010. Random walk simulations of fossil proxy data. *The Holocene* 20 (4), 645–9.
- Blackford, J.J. & J.B. Innes, 2006. Linking current environments and processes to fungal spore assemblages: surface NPM data from woodland environments. *Review of Palaeobotany and Palynology* 141, 179–87.
- Blockley, S.P.E., S.D.F. Pyne-O'Donnell, J.J. Lowe, I.P. Matthews, A. Stone, A.M. Pollard, C.S.M. Turney & E.G. Molyneux, 2005. A new and less destructive laboratory procedure for the physical separation of distal glass tephra shards from sediments. *Quaternary Science Reviews* 24 (16), 1952–60.
- Blouet, B., 1963. *The Changing Landscape of Malta during the Rule of the Order of St John of Jerusalem 1530–1798*. Hull: University of Hull.
- Blouet, B., 1964. The distribution of marshland in Malta during the seventeenth century. *Journal of Maltese Studies* 2, 198–203.
- Blouet, B., 1967. Some observations on the distribution of Xagħra place-names in Malta. *Journal of Maltese Studies* 4, 81–4.
- Blouet, B., 1978. The impact of armed conflict on the rural settlement pattern of Malta. *Transactions of the Institute of British Geographers* 3 (3), 367–80.
- Blouet, B., 1984. *The Story of Malta* (2nd edition). Malta: Progress Press.
- Blouet, B., 1993. *The Story of Malta* (5th edition). Malta: Progress Press.
- Blouet, B., 1997. *The Story of Malta* (6th edition). Malta: Progress Press.
- Boddington, A., A.N. Garland & R.C. Janaway (eds.), 1987. *Death, Decay, and Reconstruction: Approaches to Archaeology and Forensic Science*. Manchester: Manchester University Press.
- Bonanno, A., 1977. Distribution of villas and some aspects of the Maltese economy in the Roman period. *Journal of the Faculty of Arts* 6 (4), 73–81.
- Bonanno, A., 1986a. A socioeconomic approach to Maltese prehistory, in *The Temple Builders. Malta. Studies of its Heritage and History*. Malta: Mid-Med Bank Ltd. – Interprint Ltd., 17–46.
- Bonanno, A. (ed.), 1986b. *Archaeology and Fertility Cult in the Ancient Mediterranean. Papers Presented at the First International Conference on Archaeology of the Ancient Mediterranean. The University of Malta 2–5 September 1985*. Amsterdam: B.R. Grüner Publishing Co.
- Bonanno, A., 1990. Malta's role in the Phoenician, Greek and Etruscan trade in the western Mediterranean. *Melita Historica* 10, 209–24.

- Bonanno, A., 1992. *Roman Malta. The Archaeological Heritage of the Maltese Islands*. Lugano: World Confederation of Salesian past pupils of Don Bosco.
- Bonanno, A., 1993a. The prehistory and protohistory of the Maltese Islands: Current problems and perspectives, in *La Prehistòria de les Illes de la Mediterrània Occidental. Jornades d'Estudis Històrics Locals* 10, 215–41.
- Bonanno, A., 1993b. Tarxien and Tarxien Cemetery. Break or continuity between Temple Period and Bronze Age in Malta?. *Mediterraneo. Revistade Estudos Pluridisciplinares sobre ad Sociedades Mediterranicas* 2, 35–47.
- Bonanno, A., 2008. Maltese wine pressing in antiquity. *Melita Historica* 11, 1–18.
- Bonanno, A., 2011. The rise of a maritime strategic island: Malta under the Phoenicians and the Romans, in *The Maritime History of Malta: The First Millennia*, eds. C. Cini & J. Borg. Malta: Salesians of Don Bosco and Heritage Malta, 37–71.
- Bonanno, A. 2018. Roman Villas in the Maltese Archipelago, in *The Roman Villa in the Mediterranean Basin: Late Republic to Late Antiquity*, eds. A. Marzano & G. P. R. Métraux, Cambridge: Cambridge University Press, 255–65.
- Bonanno, A. and N.C. Vella, 2015. *Tas Silġ, Marsaxlokk (Malta) I: Archaeological Excavations Conducted by the University of Malta, 1996–2005*. (Ancient Near East Studies Supplement Series 48). Leuven: Peeters Publishers.
- Bonanno, A., T. Gouder, C. Malone & S. Stoddart, 1990. Monuments in an island society. *World Archaeology* 22 (2), 190–205.
- Bonatti, E., 1966. North Mediterranean climate during the last Würm glaciation. *Nature* 209, 984–5.
- Bondì, S.F., 2014. Phoenicity, punicity, in *The Punic Mediterranean*, eds. J.C. Quinn & N.C. Vella. Cambridge: Cambridge University Press, 58–68.
- Bonson, C.G., C. Childs, J.J. Walsh, M.P.J. Schöpfer & V. Carboni, 2007. Geometric and kinematic controls on the internal structure of a large normal fault in massive limestones: The Maghlaq Fault, Malta. *Journal of Structural Geology* 29, 336–54.
- Bocquet-Appel, J. P. 2002. Paleoanthropological Traces of a Neolithic Demographic transition. *Current Anthropology* 43 (4), 637–50.
- Boreham, S., C. Conneller, N. Milner, B. Taylor, A. Needham, J. Boreham & C.J. Rolfe, 2011. Geochemical indicators of preservation status and site deterioration at Star Carr. *Journal of Archaeological Science* 38, 2833–57.
- Borg, A.P., 2003. 'Migration and Mobility in Early Modern Malta. The Harbour City of Valletta as a Case-Study, 1575–1650.' Unpublished MA thesis, University of Malta.
- Borg, J., 1915. Agriculture and Horticulture in Malta, in *Malta and Gibraltar Illustrated: Historical and Descriptive, Commercial and Industrial, Facts, Figures and Resources*, ed. A. Macmillan. London: W.H. & L. Collingridge and Malta: Midsea Books, 224–9.
- Boserup, E., 1965. *The Conditions of Agricultural Growth*. Chicago: Aldine.
- Boserup, E., 1975. The Impact of Population Growth on Agricultural Output. *The Quarterly Journal of Economics* 89 (2), 257–70.
- Bottema, S. & H. Woldring, 1984. Late Quaternary vegetation and climate of southwestern Turkey. *Paleohistoria* 26, 123–49.
- Bottema, S., G. Entjes-Nieborg & W. Van Zeist (eds.), 1990. *Man's Role in the Shaping of the Eastern Mediterranean Landscape*. Rotterdam: Balkema.
- Bøtter-Jensen, L., E. Bulur, G.A.T. Duller & A.S. Murray, 2000. Advances in luminescence instrument systems. *Radiation Measurements* 32 (5), 523–28.
- Bouby, L., I. Figueiral, A. Bouchette, N. Rovira, S. Ivorra, T. Lacombe & J.F. Terral, 2013. Bioarchaeological insights into the process of domestication of grapevine (*Vitis vinifera* L.) during Roman times in Southern France. *PLoS One* 8 (5), e63195.
- Bowen, D.Q., 1978. *Quaternary Geology: A Stratigraphic Framework for Multidisciplinary Work*. London: Pergamon.
- Bowen Jones, H., J.C. Dewdney & W.B. Fisher (eds.), 1961. *Malta, a Background for Development*. Durham: Durham University Press.
- Boyle, J., A.J. Plater, C. Mayers, S.D. Turner, R.W. Stroud and J.E. Weber, 2011. Land use, soil erosion, and sediment yield at Pinto Lake, California: Comparison of a simplified USLE model with the lake sediment record. *Journal of Paleolimnology* 45 (2), 199–212.
- Boyle, S., 2013. 'The Social and Physical Environment of Early Gozo – A Study of Settlement and Change.' Unpublished PhD thesis, Queen's University Belfast.
- Boyle, S., 2014. Potty about pots: exploring identity through the prehistoric pottery assemblage, in *Exploring Prehistoric identity in Europe*, eds. V. Ginn, R. Enlander & R. Crozier. Oxford: Oxbow, 85–96.
- Braudel, F., 1966. *The Mediterranean and the Mediterranean World in the Age of Philip II*, vol. 1 (2nd edition). London: Penguin Books.
- Bresc, H., 1975. The 'Secrezia' and the Royal Patrimony in Malta: 1240–1450, in *Medieval Malta: Studies on Malta before the Knights*, ed. A. Luttrell. London: British School at Rome, 126–62.
- Bradley, R., 1993. *Altering the Earth. The Origins of Monuments in Britain and Continental Europe*. Edinburgh: Society of Antiquaries of Scotland.
- Brandt, C.J. & J.B. Thornes, 1996. *Mediterranean Desertification and Land-use*. London: John Wiley & Sons Ltd.
- Bresc, H., 1991. Sicile, Malte e Monde Musulman, in *Malta. A case study in international cross-currents. Proceedings of the First International Colloquium on the History of the Central Mediterranean held at the University of Malta, 13–17 December 1989*, eds. S. Fiorini & V. Mallia-Milanes. Malta: Salesian Press, 47–79.
- Bridges, E.M., 1978. *World Soils* (2nd edition). London: Longman.
- Bringezu S., H. Schütz, W. Pengue, M. O'Brien, F. Garcia, R. Sims, R. Howarth, L. Kauppi M. Swilling & J. Herrick, 2014. 'Assessing Global Land Use: Balancing Consumption with Sustainable Supply. A Report of the Working Group on Land and Soils of the International Resource Panel.' New York: United Nations Environment Programme.
- Brincat, J.M., 1991. Language and demography in Malta: the social foundations of the symbiosis between semitic

- and romance in standard Maltese, in *Malta. A case study in international cross-currents. Proceedings of the first international colloquium on the history of the central Mediterranean held at the university of Malta, 13–17 December 1989*, eds. S. Fiorini and V. Mallia-Milanes. Malta: Salesian Press, 91–110.
- Brincat, J.M., 1995. *Malta 870–1054 Al-Himyari's Account and its Linguistic Implications*. Valetta: Said International Ltd.
- Bringezu S., H. Schütz, W. Pengue, M. O'Brien, F. Garcia, R. Sims, R. Howarth, L. Kauppi, M. Swilling & J. Herrick (eds.), 2014. *Assessing Global Land Use: Balancing Consumption with Sustainable Supply. A Report of the Working Group on Land and Soils of the International Resource Panel*. New York: United Nations Environment Programme (UNEP).
- Broodbank, C., 2013. *The making of the Middle Sea: a history of the Mediterranean from the beginning to the emergence of the Classical world*. London: Thames and Hudson.
- Bronk Ramsey, C., 2008a. Deposition models for chronological records. *Quaternary Science Reviews* 27, 42–60.
- Bronk Ramsey, C., 2008b. Radiocarbon Dating: Revolutions in Understanding. *Archaeometry* 50 (2), 249–75.
- Brothwell, D.R. & Pollard, A.M. (eds.) 2005. *Handbook of Archaeological Sciences*. Chichester: Wiley.
- Brown, A., P. Toms, C. Carey & E. Rhodes, 2013. Geomorphology of the Anthropocene: Time-transgressive discontinuities of human-induced alluviation. *Anthropocene* 1, 3–13.
- Brückner, H., A. Vött, M. Schriever & M. Handl, 2005. Holocene delta progradation in the eastern Mediterranean – case studies in their historical context. *Méditerranée* 104, 95–106.
- Bruno, B., 2009. *Roman and Byzantine Malta: Trade and Economy* (Vol. 15). Valetta: Maltese Social Studies.
- Bruno, B. & N. Cutajar, 2002. Archeologia bizantina a Malta: primi risultati e prospettive di indagine, in *Da Pyrgia a Mozia: Studi sull'archeologia del Mediterraneo in memoria di Antonia Ciasca*, eds. M.G. Amadasi Guzzo, M. Liverani & P. Matthiae. Roma: Università di Roma La Sapienza, 109–38.
- Bruno, B. & N. Cutajar, 2018. Malta between the ninth and tenth century – two early medieval contexts. *Archeologia Medievale* 45, 111–22.
- Brusasco, P., 1993. Dal Levante al Mediterraneo centrale: La prima fase fenicia a Tas-Silg, Malta. *Journal of Mediterranean Studies* 3, 1–29.
- Bugeja, A., 2011. Understanding the past: Borg in-Nadur in antiquarian and early archaeological literature, in *Site, Artefacts and Landscape: Prehistoric Borg-in-Nadur, Malta (Praehistorica Mediterranea 3)*, eds. D. Tanasi & N.C. Vella. Italy: Polimentrica, 15–44.
- Bugeja, J.R., 2018. Land Tenure System in the Late 19th and Early 20th Centuries. *Tesserae* 6, 22–31.
- Buhagiar, K., 2002. 'Medieval and early modern cave-settlements and water galleries in North-West Malta South of the Great Fault: a field survey and gazetteer.' Unpublished MA thesis, University of Malta.
- Buhagiar, K., 2012. Caves in Context: The Late Medieval Maltese Scenario, in *Caves in Context: The Cultural Significance of Caves and Rockshelters in Europe*, eds. K.A. Bergsvik. & R. Skeates. Oxford: Oxbow, 153–65.
- Buhagiar, K. 2016. *Malta and Water (AD 900 to 1900): Irrigating a Semi-Arid Landscape*. Oxford: British Archaeological Reports – Hadrian Books.
- Buhagiar, M., 1991. Post-Muslim Malta – A Case Study in Artistic and Architectural Cross-Currents, in *Malta – A Case Study in International Cross-Currents*, eds. S. Fiorini & V. Mallia Milanes. Malta: Malta University Publications, 13–31.
- Bullock, P. & C.P. Murphy, 1979. Evolution of a palaeo-argillic brown earth (Paleudalf) from Oxfordshire, England. *Geoderma* 22, 225–52.
- Bullock, P., N. Fedoroff, A. Jongerius, G. Stoops & T. Tursina 1985. *Handbook for Soil Thin Section Description*. Wolverhampton: Wayne Research.
- Burbidge, C.I., D.C.W. Sanderson, R.A. Housley & P. Allsworth Jones, 2007. Survey of Palaeolithic sites by luminescence profiling, a case study from Eastern Europe. *Quaternary Geochronology* 2, 296–302.
- Butzer, K.W., 1960. Archaeology and geology in ancient Egypt. *Science* 132, 1617–24.
- Butzer, K.W., 1982. *Archaeology as Human Ecology*. Cambridge: Cambridge University Press.
- Butzer, K.W., 1996. Ecology in the Long View: Settlement Histories, Agrosystemic Strategies, and Ecological Performance. *Journal of Field Archaeology* 23, 141–50.
- Butzer, K.W., 2005. Environmental history in the Mediterranean world: Cross-disciplinary investigation of cause-and-effect for degradation and soil erosion. *Journal of Archaeological Science* 32, 1773–800.
- Butzer, K.W., 2015. *Anthropocene as an evolving paradigm*. *The Holocene* 25 (10), 1539–41.
- Butzer, K.W. & J. Cuerda, 1962. Coastal stratigraphy of southern Mallorca and its implications for the Pleistocene chronology of the Mediterranean Sea. *Journal of Geology* 70, 398–416.
- Cagianò de Azevedo, M., 1969. Lo scavo. In *Missione Archeologica Italiana a Malta: Rapporto preliminare della Campagna 1968*. Roma: Consiglio Nazionale delle Ricerche, 93–5.
- Cagianò de Azevedo, M., C. Caprino, A. Ciasca, E. Coleiro, A. Davico, G. Garbini & F. Saverio Mallia, 1964–73. *Missione Archeologica Italiana a Malta. Rapporti Preliminari delle Campagne 1963–1970*. Roma: Istituto di Studi del Vicino Oriente, Università di Roma.
- Caló, C., P.D. Henne, B. Curry, M. Magny, E. Vescovi, T. La Mantia, S. Pasta, B. Vanniére & W. Tinner, 2012. Spatio-temporal patterns of Holocene environmental change in southern Sicily. *Palaeogeography Palaeoclimatology Palaeoecology* 323–325, 110–22.
- Canellas-Bolta, N., S. Riera-Mora, H.A. Orenge, A. Livarda & C. Knappett, C. 2018. Human management and landscape changes at Palaikastro (Eastern Crete) from the late Neolithic to the Early Minoan period. *Quaternary Science Reviews* 183, 59–75.
- Caracuta, V., 2020. Olive growing in Puglia (southeastern Italy): a review of the evidence from the Mesolithic to the Middle Ages. *Vegetation History and Archaeobotany* <https://doi.org/10.1007/s00334-019-00765-y>

- Carlson, T.N. & D.A. Ripley, 1997. On the relation between NDVI, fractional vegetation cover, and leaf area index. *Remote Sensing of Environment* 62, 241–52.
- Carroll, F.A., 2007. 'The Holocene Environment of the Maltese Islands.' Unpublished PhD, Queen's University Belfast.
- Carroll, F.A., C.O. Hunt, P.J. Schembri & A. Bonanno, 2012. Holocene climate change, vegetation history and human impact in the Central Mediterranean: evidence from the Maltese Islands. *Quaternary Science Reviews* 52, 24–40.
- Cassar, C., 1988. Everyday Life in Malta in the Nineteenth and Twentieth Centuries, in *The British Colonial Experience, 1800–1964: The Impact on Maltese Society*, ed. V. Mallia Milanese. Malta: Mireva, 91–126.
- Cassar, C., 2000. *Society, culture and identity in early modern Malta*. Malta: Mireva.
- Cassar, C., 2002. *A Concise History of Malta*. Malta: Mireva.
- Cassar, L.F., E. Conrad & P.J. Schembri, 2008. The Maltese archipelago, in *Mediterranean Island Landscapes: Natural and Cultural Approaches*, eds. I.N. Vogiatzakis, G. Pungetti and A.M. Mannion. Heidelberg: Springer, 297–322.
- Catania, P., 2015. *The People of the North 1546–1610*. Malta: Midsea Books.
- Catling, C., 2013. Peasant houses in Midland England. *Current Archaeology* 279, 12–19.
- Catt, J.A., 1990. Paleopedology manual. *Quaternary International* 6, 1–95.
- Cazzella, A. & G. Recchia, 2008. L'area sacra megalitica di Tas-Silg (Malta): nuovi elementi per lo studio dei modelli architettonici e delle pratiche culturali. *Scienze dell'Antichità* 13, 689–99.
- Cazzella, A. & G. Recchia, 2012. Tas-Silg: the Late Neolithic megalithic sanctuary and its re-use during the Bronze Age and the Early Iron Age. *Scienze dell'antichità* 18, 15–38.
- Cazzella, A. & G. Recchia, 2013. Malta, Sicily, Aeolian Islands and Southern Italy during the Bronze Age: The meaning of a changing relationship in, *Exchange, Interaction, Conflicts and Transformations: Social and Cultural Changes in Europe and the Mediterranean between Bronze and Iron Age*, eds. Alberti. E. & S. Vitri. Oxford: Oxbow, 80–91.
- Cazzella, A. & G. Recchia, 2015. The early Bronze Age in the Maltese islands, in *The Late Prehistory of Malta: Essays on Borg in-Nadur and Other Sites*, eds. D. Tanasi and N.C. Vella. Oxford: Archaeopress, 139–59.
- Cazzella, A., A. Pace & G. Recchia, 2011. The late second millennium B.C. agate artefact with cuneiform inscription from the Tas-Silg sanctuary in Malta: an archaeological framework. *Scienze dell'Antichità* 17, 599–609.
- Cazzella, A., A. Pace & G. Recchia, 2012. Cult and exchange in the Mediterranean: A second millennium BC cuneiform inscription from the sanctuary of Tas-Silg in Malta. *Le Science Web* (News online: <http://en.lswn.it/archaeology/cult-and-exchange-in-the-mediterranean-a-second-millennium-bc-cuneiform-inscription-from-the-sanctuary-of-tas-silg-in-malta/>).
- Cerdá, A., 2008. *Erosión y Degradación del Suelo Agrícola en España*. Valencia: Universitat de Valencia Estudi General.
- Chapman, J., 2018. Climatic and human impact on the environment?: A question of scale. *Quaternary International* 496, 3–13.
- Chatzimpaloglou, P., 2019. 'Geological reconnaissance and provenancing of potential Neolithic lithic sources in the Maltese Islands.' Unpublished PhD, Department of Archaeology, University of Cambridge.
- Chatzimpaloglou P., C. French, M. Pedley & S. Stoddart, 2020. Connecting chert sources of Sicily with the Neolithic chert artefacts of Malta. *Journal of Archaeological Science: Reports* 29, 102–11.
- Chen, Y.C., Q. Sung & K.Y. Cheng, 2003. Along-strike variations of morphotectonic features in the Western Foothills of Taiwan: Tectonic implications based on stream-gradient and hypsometric analysis. *Geomorphology* 56, 109–37.
- Cherry, J.F., 1981. Pattern and process in the earliest colonisation of the Mediterranean islands. *Proceedings of the Prehistoric Society* 47, 41–68.
- Cherry, J.F., 1990. The first colonisation of the Mediterranean islands: a review of recent research. *Journal of Mediterranean Archaeology* 3 (2), 145–221.
- Cherry, J.F., 2004. Mediterranean island pre-history: what's different and what's new?, in *Voyages of Discovery: The Archaeology of Islands*, ed. S.C. Fitzpatrick. Westport: Praeger Publishers, 233–48.
- Chetcuti, D., A. Buhagiar, P.J. Schembri & F. Ventura, F. 1992. *The Climate of the Maltese Islands: A Review*. Msida: Malta University Press.
- Chircop, J., 1993. *Underdevelopment: The Maltese Experience 1880–1914*. University of Malta.
- Cilia, D.P. & C. Mifsud, 2012. Contributions to the malacology of Malta, I: a new location for subfossil *Oxyloma elegans* (Risso, 1826) (Pulmonata: Succineidae) from the Salini Holocene deposits in Malta. *Central Mediterranean Naturalist* 2011 (5), 3–4.
- Civetta, L., Y. Cornette, P.Y. Gillot & G. Orsi, G. 1988. The eruptive history of Pantelleria (Sicily channel) in the last 50 ka. *Bulletin of Volcanology* 50, 47–57.
- Clark, A., 1996. *Seeing beneath the Soil: Prospecting Methods in Archaeology* (2nd edition). London: Routledge.
- Clark, D., 2004. Building Logistics, in *Malta before History: The World's Oldest Free-Standing Stone Architecture*, ed. D. Cilia. Malta: Miranda, 367–77.
- Coles, G.M., D.D. Gilbertson, C.O. Hunt & R.D.S. Jenkinson, 1989. Taphonomy and the palynology of cave sediments. *Cave Science* 16 (3), 83–9.
- Collins, P.M., B.A.S. Davis & J.O. Kaplan, 2012. The mid-Holocene vegetation of the Mediterranean region and southern Europe, and comparison with the present day. *Journal of Biogeography* 39, 1848–61.
- Coneybeare, W.D., 1824. On the discovery of an almost perfect skeleton of a Plesiosaurus. *Transactions of the Geological Society Journal of Science* VII, 203–40.
- Conolly, J. & M. Lake, 2006. *Geographic Information Systems in Archaeology*. Cambridge: Cambridge University Press.
- Contreras, D.A., 2011. How far to Conchucos? A GIS approach to assessing the implications of exotic materials at Chavín de Huántar, *World Archaeology* 43 (3), 380–97.

- Cook, S.F. & R.F. Heizer, 1965. *Studies on the Chemical Analysis of Archaeological Sites*. Berkeley: University of California Press.
- Cooke, J.H., 1891. Notes on the 'Pleistocene Beds' of Gozo. *Geological Magazine* 28, 348–55.
- Cooke, J.H., 1893a. On the occurrence of concretionary masses of flint and chert in the Maltese limestones. *GeoMagazine* 30, 157–60.
- Cooke, J.H., 1893b. The marls and clays of the Maltese Islands. *Quarterly Journal of the Geological Society London* 49, 117–28.
- Cooke, J.H., 1893c. On the occurrence of concretionary masses of flint and chert in the Maltese limestones. *GeoMagazine* 30, 157–60.
- Cooke, J.H., 1896a. Contributions to the stratigraphy and palaeontology of the Globigerina Limestones of the Maltese Islands. *Quarterly Journal of the Geological Society London* 52, 461–2.
- Cooke, J.H., 1896b. Notes on the Globigerina Limestone of the Maltese Islands. *Geological Magazine* 33, 502–11.
- Cooke, J.H., 1896c. Notes on the 'Pleistocene Beds' of the Maltese Islands. *Geological Magazine* 32, 201–10.
- Copat, V., M. Danesi and C. Ruggini, 2013. Late Neolithic and Bronze age pottery from Tas-Silġ sanctuary: new research perspectives for the Maltese prehistoric sequence. *Scienze dell'Antichità* 18, 39–63.
- Corrado, A., A. Bonanno & N.C. Vella 2004. Bones and Bowls: a Preliminary Interpretation of the Faunal Remains from the Punic Levels in Area B, at the Temple of Tas-Silġ, Malta, in *Behaviour Behind Bones: The Zooarchaeology of Ritual, Religion, Status and Identity*, eds. S. Jones O'Day, W. Van Neer & A. Ervynvk, Oxford: Oxbow, 47–53.
- Courty, M-A., P. Goldberg & R.I. Macphail, 1989. *Soils and Micromorphology in Archaeology*. Cambridge: Cambridge University Press.
- Cox, C.B., P.D. Moore & R.J. Ladle, R.J., 2016. *Biogeography: An Ecological and Evolutionary Approach*. (9th edition) Chichester: Wiley-Blackwell.
- Cresswell, A.J., D.C.W. Sanderson, T.C. Kinnaird & C. French, 2017. 'Luminescence analysis and dating of sediments from valley fills and archaeological sites on Gozo and Malta.' Unpublished report, July, 2017. East Kilbride: SUERC.
- Cresswell, A.J., Carter, J. & Sanderson, D.C.W. 2018. Dose rate conversion parameters: assessment of nuclear data. *Radiation Measurements* 120, 195–201.
- Cutajar, N., 2018. *Core and Periphery – Mdina and Hal Safi in the 9th and 10th centuries*, Valletta, Heritage Malta.
- Dalli, C., 2006. *Malta – The Medieval Millennium*. Malta: Midsea Books.
- Dalli, C., 2011. The sea in Medieval Maltese History, in *The Maritime History of Malta: The First Millennium*, eds. D. Cini & J. Borg. Malta: Salesians of Don Bosco and Heritage Malta, 73–109.
- Dalli, C., 2016. From medieval dar al-Islam to contemporary Malta: rahal toponymy in a wider western Mediterranean context. *Island Studies Journal* 11 (2), 369–80.
- Dansgaard, W., S.J. Johnsen, H.B. Clausen, D. Dahl-Jensen, N.S. Gunderstrup, C.U. Hammer, C.S. Hvidberg, J.P. Steffensen, A.E. Sveinbjornsdottir, J. Jouzel & G. Bond, 1993. Evidence for general instability of past climate from a 250-kyr ice-core record. *Nature* 364, 218–22.
- Dart, C.J., D.W.J. Bosence & K.R. McClay, 1993. Stratigraphy and structure of the Maltese graben system. *Journal of the Geological Society* 150, 1153–66.
- Davidovich, U., N. Porat, Y. Gadot, Y. Avni & O. Lipschits, 2012. Archaeological investigations and OSL dating of terraces at Ramat Rahel, Israel. *Journal of Field Archaeology* 37 (3), 192–208.
- Davidson, D.A., 1971. Geomorphology and prehistoric settlement of the Plain of Drama. *Revue Geomorphologie Dynamique* 20, 22–6.
- Davidson, D.A., 1980. Erosion in Greece during the first and second millennia BC, in *Timescales in Geomorphology*, eds. R.A. Cullingford, D.A. Davidson & J. Lewin. New York: Wiley and Sons, 143–58.
- Davis, D.S., 2019. Studying human responses to environmental change: Trends and trajectories of archaeological research. *Environmental Archaeology* 24 (4) (doi.org/10.1080/14614103.2019.1639338)
- Dawson, H., 2004–6. Understanding colonisation. Adaptation strategies in the central Mediterranean islands. *Accordia Papers* 10, 35–60.
- Dawson, H., 2008. Unravelling 'mystery' and process from the prehistoric colonization and abandonment of the Mediterranean Islands, in *Comparative Island Archaeologies*, eds. J. Conolly & M. Campbell. (BAR International Series 1829.) Oxford: British Archaeological Reports, 105–33.
- Dawson, H., 2010. Question of Life or Death? Seafaring and Abandonment in the Mediterranean and Pacific Islands, in *The Global Origins and Development of Seafaring*, eds. A. Anderson, J.H. Barrett & K.V. Boyle. Cambridge: McDonald Institute, 203–12.
- Dawson, H., 2014. *Mediterranean Voyages: The Archaeology of Island Colonisation and Abandonment*. Publications of the Institute of Archaeology, University College London 62. Walnut Creek, CA: Left Coast Press, Inc.
- Declercq, Y., R. Samson, A. Castanheiro, S. Spassov, F.M.G. Tack, E. Van De Vijver & P. De Smedt, 2019. Evaluating the potential of topsoil magnetic pollution mapping across different land use classes. *Science of the Total Environment* 685, 345–56.
- De Grossi Mazzorin, J. & M. Battafarano 2012. I resti faunistici provenienti dagli scavi di Tas Silġ a Malta: testimonianze di pratiche rituali, in *Atti del 6° Convegno Nazionale di Archeozoologia Centro Visitatori del Parco dell'Orecchiella 1–24 maggio 2009 San Romano in Garfagnana – Lucca*, eds. J. De Grossi Mazzorin, D. Saccà & C. Tozzi, Lecce: Associazione Italiana di Archeozoologia, 357–63.
- Delano-Smith, C., N. Mills & B. Ward-Perkins, 1986. Luni and the Ager Lunensis. The Rise and fall of a Roman town and its territory. *Papers of the British School at Rome* 54, 82–146.
- De Lucca, D., 1988. British Influence on Maltese Architecture and Fortifications, in Mallia Milanese, V. (ed.) *The British Colonial Experience, 1800–1964: The Impact on Maltese Society*, pp. 313–27. Malta: Mireva.

- De Lucca, D., 1995. *Mdina: A History of Its Urban Space and Architecture*. Malta: Said International.
- Desjardins, E., G. Barker, Z. Lindo, C. Dielman & A.C. Dus-sault, 2015. Promoting resilience. *The Quarterly Review of Biology* 90, 147–65.
- de Vareilles, A., L. Bouby, A. Jesus, L. Martin, M. Rottoli, M. Vander Linden & F. Antolin, 2020. One sea but many routes to Sail. The early maritime dispersal of Neolithic crops from the Aegean to the Western Mediterranean. *Journal of Archaeological Science: Reports* 29, 102140.
- di Gennaro, F. & S.K.F. Stoddart, 1982. A review of the evidence for prehistoric activity in part of South Etruria. *Papers of the British School at Rome* 50, 1–21.
- Di Rita, F. and D. Magri, 2009. Holocene drought, deforestation and evergreen vegetation development in the central Mediterranean: A 5500 year record from Lago Alimini Piccolo, Apulia, southeast Italy. *The Holocene* 19, 295–306.
- Di Rita, F. & D. Magri, 2019. The 4.2ka event in the vegetation record of the central Mediterranean. *Climate Past* 15, 237–51.
- Dietre, B., E. Gauthier & F. Gillet, 2012. Modern pollen rain and fungal spore assemblages from pasture woodlands around Lake Saint-Point (France). *Review of Palaeobotany and Palynology* 186, 69–89.
- Djamali, M., 2014. Pollen profile BM1, BurMarrad ria, Malta. *European Pollen Database (EPD)*, PANGAEA (<https://doi.org/10.1594/PANGAEA.835773>).
- Djamali, M., B. Gambin, N. Marriner, V. Andieu-Ponel, T. Gambin, E. Gandouin, S. Lanfranco, F. Medail, D. Paron, P. Ponel & C. Morhange, 2013. Vegetation dynamics during the early to mid-Holocene transition in NW Malta, human impact versus climate forcing. *Vegetation History and Archaeobotany* 22, 367–80.
- Docter, R.F., N.C. Vella, N. Cutajar, A. Bonanno & A. Pace, 2012. Rural Malta: First Results of the Joint Belgo-Maltese Survey Project. *Babesch. Bulletin Antieke Beschaving* 87, 107–49.
- Doneddu, M. & E. Trainito, 2005. *Conchiglie del Mediterraneo: Guida ai Molluschi conchigliati*. Trezzano sul Naviglio: Il Castello.
- Dotterweich, M., 2008. The history of soil erosion and fluvial deposits in small catchments of central Europe: Deciphering the long-term interaction between humans and the environment – A review. *Geomorphology* 101, 192–208.
- Dotterweich, M., M. Stankoviansky, J. Minár, S. Koco & P. Papco, 2013. Human induced soil erosion and gully system development in the Late Holocene and future perspectives on landscape evolution: The Myjava Hill Land, Slovakia. *Geomorphology* 201, 227–45.
- Drescher-Schneider, R., J-L. de Beaulieu, M. Magny, A-V. Walter-Simonnet, G. Bossuet, L. Millet, E. Brugiapaglia & A. Drescher, A. 2007. Vegetation history, climate and human impact over the last 15,000 years at Lago dell'Accesa (Tuscany, Central Italy). *Vegetation History and Archaeobotany* 16, 279–99.
- Duchauffour, P., 1982. *Pedology*. London: Allen and Unwin.
- Durand, N., H. Curtis Monger & M.G. Canti, 2010. Calcium carbonate features, in *Interpretation of Micromorphological Features of Soils and Regoliths*, eds. G. Stoops, V. Marcelino & F. Mees. Amsterdam: Elsevier, 149–94.
- Durn, G., 2003. Terra rossa in the Mediterranean region: parent materials, composition and origin. *Geologia Croatica* 56, 83–100.
- Dusar, B., G. Verstraeten, B. Notebaert & J. Bakker, 2011. Holocene environmental change and its impact on sediment dynamics in the eastern mediterranean. *Earth-Science Reviews* 108, 137–57.
- Edgeworth, M., C. Waters, J. Zalasiewicz & S. Stoddart, 2016. Second Anthropocene Working Group Meeting. *The European Archaeologist* 47, 27–31.
- Edwards, K.J., R.M. Fyfe, C.O. Hunt & E. Schofield, 2015. Moving forwards? Palynology and the human dimension. *Journal of Archaeological Science* 56, 117–32.
- Edwards, K.J. & C.J. McIntosh, 1988. Improving the detection of cereal-type pollen grains from *Ulmus* decline and earlier deposits from Scotland. *Pollen et Spores* 3, 179–88.
- Efremov, A., 1940. Taphonomy: a new branch of palaeontology. *Pan American Geologist* 74, 81–93.
- Ejarque, A., Y. Miras & S. Riera, 2011. Pollen and non-pollen palynomorphs indicators of vegetation and highland grazing activities obtained from modern surface and dung datasets in the eastern Pyrenees. *Review of Palaeobotany and Palynology* 167, 123–39.
- Ellenberg, L., 1983. Die kusten von Gozo. *Essener Geographische Arbeiten* 6, 129–60.
- Endre Nyerges, A., 1980. Traditional Pastoralism and Patterns of Range Degradation, in *Browse in Africa. The Current State of Knowledge*, ed. H.N. Le Houerou. Addis Ababa: International Livestock Center for Africa, 465–70.
- English Heritage, 2007. *Geoarchaeology: Using Earth Sciences to Understand the Archaeological Record* (2nd edition). Swindon: English Heritage.
- Entwistle, J.A., P.W. Abrahams & R.A. Dodgshon, 1998. Multi-element analysis of soils from Scottish historical sites, interpreting land-use history through physical and chemical analysis of soil. *Journal of Archaeological Science* 25, 53–68.
- Eppes, M.C., R. Bierma, D. Vinson & F. Pazzaglia, 2008. A soil chronosequence study of the Reno valley, Italy: Insights into the relative role of climate versus anthropogenic forcing on hillslope processes during the mid-Holocene. *Geoderma* 147, 97–107.
- Epstein, S.R., 2002. *An Island for Itself: Economic Development and Social Change in Late Medieval Sicily*. Cambridge: Cambridge University Press.
- Estiarte, M., J. Peñuelas, C. López-Martínez & R. Pérez-Obiol, 2008. Holocene palaeoenvironment in a former coastal lagoon of the arid south eastern Iberian Peninsula: salinization effects on  $\delta^{15}\text{N}$ . *Vegetation History and Archaeobotany* 17, 667–74.
- ESRI, 2017a. *Data Classification Methods*. <http://pro.arcgis.com/en/pro-app/help/mapping/symbols-and-styles/data-classification-methods.htm> [Accessed 18 Apr 2017].
- ESRI, 2017b. *How Line Density works*. <http://desktop.arcgis.com/en/arcmap/10.3/tools/spatial-analyst-toolbox/how-line-density-works.htm> [Accessed 18 Apr 2017].
- ESRI, 2017c. *How the Horizontal and Vertical Factors Affect Path Distance*. <http://desktop.arcgis.com/en/arcmap/10.3/>

- tools/spatial-analyst-toolbox/how-the-horizonal-and-vertical-factors-affect-path-distance.htm [Accessed 11 Apr 2017].
- ESRI, 2017d. *Understanding Path Distance Analysis*. <http://desktop.arcgis.com/en/arcmap/10.3/tools/spatial-analyst-toolbox/understanding-path-distance-analysis.htm> [Accessed 11 Apr 2017].
- Etherington, T.R., 2016. Least-Cost Modelling and Landscape Ecology: Concepts, Applications, and Opportunities, *Current Landscape Ecology Reports* 1 (1), 40–53.
- Evans, J.D., 1953. The prehistoric culture sequence of the Maltese archipelago. *Proceedings of the Prehistoric Society* 19, 41–94.
- Evans, J.D., 1956. The dolmens of Malta and the origins of the Tarxien cemetery culture. *Proceedings of the Prehistoric Society* 22, 85–101.
- Evans, J.D., 1959. *Malta. Ancient People and Places*. London: Thames and Hudson.
- Evans, J.D., 1971. *The Prehistoric Antiquities of the Maltese Islands: a survey*. London: Athlone Press.
- Evans, J.D., 1973a. Islands as laboratories for the study of culture process, in *The Explanation of culture change. Models in Prehistory*, ed. A.C. Renfrew. London: Duckworth, 517–20.
- Evans, J.D., 1973b. Priests and people – a note on evidence for social distinctions in prehistoric Malta, in *Estudios Dedicados al Profesor Dr. Luis Pericot (Publicaciones Eventuales 23)*, ed. J. Maluquer de Motes. Barcelona: Universidad de Barcelona, Instituto de Arqueología y Prehistoria, 215–19.
- Evans, J.D., 1977. Island archaeology in the Mediterranean, problems and opportunities. *World Archaeology* 9, 12–26.
- Evans, J.D., 1984. Maltese prehistory: A reappraisal, in *The Deya Conference of Prehistory*, eds. W. Waldren, R.W. Chapman, J. Lewthwaite & R.C. Kennard. Oxford: British Archaeological Reports, International Series 229, 489–97.
- Evans, J.G., 1978. *An Introduction to Environmental Archaeology*. New York: Cornell University Press.
- Evans, J.G. & T. O'Connor, 2005. *Environmental Archaeology, Principles and Methods* (2nd edition). Stroud: Sutton Publishing.
- Faegri, K. & K. Iversen, 1975. *A textbook of pollen analysis*. Stockholm: Munksgaard.
- Fageria, N.K. & V.C. Baligar, 2005. Nutrient availability, in *Encyclopedia of Soils in the Environment*, ed. D. Hillel. Amsterdam: Elsevier, 63–71.
- F.A.O. & I.S.R.I.C., 1990. *Guidelines for Soil Description* (3rd edition revised). Rome: FAO.
- Fall, P.L., S.E. Falconer, C.S. Galletti, T. Shirmang, E. Ridder & J. Klinge, 2012. Long-term agrarian landscapes in the Troodos foothills, Cyprus. *Journal of Archaeological Science* 39, 2335–47.
- Farres, P., 2019. Paleosoils: Legacies of past landscapes, with a series of contrasting examples from Malta, in *Landscapes and Landforms of the Maltese Islands*, eds. R. Gauci & J.A. Schembri. Cham, Switzerland: Springer Nature, 141–52.
- Fassbinder, J.W.E., 2016. Magnetometry for archaeology, in *Encyclopedia of Geoarchaeology*, ed. A.S. Gilbert. Dordrecht: Springer, 499–514.
- Fedoroff, N., 1968. Génese et morphologie des sols a horizon b textural en France atlantique. *Science du Sol* 1, 29–65.
- Fedoroff, N., 1977. Clay illuviation in Red Mediterranean soils. *Catena* 28, 71–189.
- Felix, R., 1973. *Oligo-Miocene Stratigraphy of Malta and G020*. Wageningen: H. Veenman and Zonen, B.V.
- Fenech, K., 2007. *Human-induced changes in the environment and landscape of the Maltese Islands from the Neolithic to the 15th century AD as inferred from a scientific study of sediments from Marsa, Malta*. British Archaeological Reports, International Series 1692. Oxford: Archaeopress.
- Fenech, K. & P.J. Schembri, 2015. Environmental analyses based on molluscan and other sedimentological remains, in *Tas-Silġ, Marsaxlokk (Malta) I: Archaeological Excavations Conducted by the University of Malta, 1996–2005*, eds. A. Bonanno, A. & N.C. Vella. Leuven: Peeters, 401–96.
- Fenton, E.G., 1918. The Maltese Cart Ruts. *Man* 18, 67–72.
- Finné, M., K. Holmgren, H.S. Sundqvist, E. Weiberg & M. Lindblom, 2011. Climate in the eastern Mediterranean, and adjacent regions, during the past 6000 years – A review. *Journal of Archaeological Science* 38, 3153–73.
- Fiorentino, G., C. Oronzo & G. Colaianni, 2012. Human-Environmental Interaction, in *Malta From The Neolithic To The Roman Period: Archaeobotanical Analyses At Tas-Silġ*. *Scienze dell'Antichità* 18, 169–84.
- Fiorini, S., 1993a. Malta in 1530, in *Hospitaller Malta 1530–1798: Studies on Early Modern Malta and the Order of St. John of Jerusalem*, ed. V. Mallia Milanese. Malta: Mireva, 111–98.
- Fiorini, S., 1993b. Demographic growth and urbanisation of the Maltese countryside to 1798, in *Hospitaller Malta, 1530–1798: Studies on Early Modern Malta and the Order of St John of Jerusalem*, ed. V. Mallia-Milanese. Msida, Malta: Mireva, 296–310.
- Fleisher, J. & F. Sulas, 2015. Deciphering public spaces in urban contexts: Geophysical survey, multi-element analysis, and artefact distributions at the 15th–16th century AD Swahili settlement of Songa Mnana, Tanzania. *Journal of Archaeological Science* 55, 55–70.
- Florenzano, A., M. Marignani, L. Rosati, S. Fascetti & A.M. Mercuri, 2015. Are Cichorieae an indicator of open habitats and pastoralism in current and past vegetation studies? *Plant Biosystems* 149, 154–65.
- Florenzano, A., A.M. Mercuri, R. Rinaldi, E. Rattighieri, R. Fornaciari, R. Messori & L. Arru, 2017. The representativeness of *Olea* pollen from olive groves and the late Holocene landscape reconstruction in central Mediterranean. *Frontiers in Earth Science* 5, 1–11.
- Foglini, F., M. Prampolini, A. Micallef, L. Angeletti, L. Vanfelli, A. Deidum & M. Taviani, 2016. Late Quaternary coastal landscape morphology and evolution of the Maltese Islands (Mediterranean Sea) reconstructed from high-resolution seafloor data, in *Geology and Archaeology: Submerged Landscapes of the Continental Shelf*, eds. J. Harff, G. Bailey & F. Luth. London: Geological Society Special Publication 411, 77–95.
- Folke, C., 2006. Resilience: The emergence of a perspective for social-ecological system analyses. *Global Environmental Change* 16 (3), 253–67.

- Folke, C., 2019. Resilience, in *Oxford Research Encyclopedia of Environmental Science*, ed. H.H. Shugart. Oxford: Oxford University Press, 1–60.
- Folke, C., S. Carpenter, B. Walker, M. Scheffer, F.S. Chapin & J. Rockstrom, 2010. Resilience thinking: Integrating resilience, adaptability and transformability. *Ecology and Society* 15 (4), 20–28.
- Follieri, M., D. Magri & L. Sadori, 1988. 250,000-year pollen record from the Valle di Castiglione (Roma). *Pollen et Spores* 30, 329–56.
- Föllmi, K.B., B. Gertsch, J.-P. Renevey, E. De Kaenel & P. Stilles, 2008. Stratigraphy and sedimentology of phosphate-rich sediments in Malta and south-eastern Sicily (latest Oligocene to early Late Miocene). *Sedimentology* 55, 1029–51.
- Forbes, H., 1996. The uses of the uncultivated landscape in modern Greece: a pointer to the value of the wilderness in antiquity?, in *Human Landscapes in Classical Antiquity: Environment and Culture*, eds. G. Shipley & J. Salmon. London-New York: Routledge, 68–97.
- Forbes, H., 1998. European Agriculture Viewed Bottom-side Upwards: Fodder- and Forage-provision in a Traditional Greek Community. *Environmental Archaeology* 1, 19–34.
- French, C., 2010. Sustaining prehistoric agricultural landscapes in southern Spain, highland Yemen and northern New Mexico: the geoarchaeological perspective, in *Perspectives in Landscape Archaeology*, eds. H. Lewis & S. Semple. B.A.R. International Series 2103. Oxford: Archaeopress, 37–44.
- French, C., 2015. *A Handbook of Geoarchaeological Approaches to Landscapes and Settlement Sites*. Oxford: Oxbow Books.
- French, C., S. Taylor, R. McLaughlin, A. Cresswell, T. Kinnaid, D. Sanderson, S. Stoddart & C. Malone, 2018. A Neolithic palaeo-catena for the Xaghra Upper Coralline Limestone plateau of Gozo, Malta, and its implications for past soil development and land use. *Catena* 171, 337–58.
- Frendo, H., 1988. Maltese Colonial Identity: Latin Mediterranean or British Empire?, in *The British Colonial Experience, 1800–1964: The Impact on Maltese Society*, ed. V. Mallia Milanese. Malta: Mireva, 185–214.
- Frost, H., 1969. *The Mortar Wreck in Mellieha Bay: Plans and Soundings. A Report on the 1967 Campaign carried out on behalf of the National Museum of Malta*. London: Appetron Press.
- Fsadni, M., 1992. *The Girna. The Maltese Corbelled Stone Hut*. Malta: Dominican Publication.
- Fuchs, M., Lang, A. & Wagner, G.A. 2004. The history of Holocene soil erosion in the Phlious Basin, NE Peloponnese, Greece, based on optical dating. *The Holocene* 14, 334–45.
- Fuller, D.Q., 2001. Harappan seeds and agriculture: some considerations. *Antiquity* 75, 410–14.
- Furlani, S., F. Antonioli, S. Biolchi, T. Gambin, R. Gauci, V. Lo Priesti, M. Anzidei, S. Devoto, M. Palombo & A. Sulli, 2013. Holocene sea level change in Malta. *Quaternary International* 288, 146–57.
- Furlani, S., F. Antonioli, T. Gambin, S. Biolchi, S. Formosa, V. Lo Priesti, M. Mantovani, M. Anzidei, L. Calcagnile & G. Quarta, G. 2018. Submerged speleothem in Malta indicates tectonic stability throughout the Holocene. *The Holocene* 28 (10), 1588–97.
- Galea P., 2007. Seismic history of the Maltese Islands and considerations on seismic risk. *Annals of Geophysics* 50 (6), 725–40.
- Galea, P., 2019. Central Mediterranean Tectonics – A Key player in the geomorphology of the Maltese Islands, in *Landscapes and Landforms of the Maltese Islands* (World Geomorphological Landscapes), eds. R. Gauci & J.A. Schembri. Cham, Switzerland: Springer Nature, 19–30.
- Galdies, C., 2011. *The climate of Malta: statistics, trends and analysis, 1951–2010*. Valletta: National Statistics Office.
- Gambin, T., 2008. Archaeological discoveries at Marsa over the centuries. *Malta Archaeological Review* 7 (2004–2005), 49–54.
- Gambin, T. 2015. A Phoenician Shipwreck off Gozo, Malta. *Malta Archaeological Review* 10, 69–71.
- Gambin, T. & J.-C. Sourisseau 2015. Xlendi, Malta. *Homepage of Laboratoire des Sciences de l'Information et des Systèmes, Centre Camille-Jullian, Centre National de la Recherche Scientifique (France)*, [http://www.lsis.org/groplan/article/art\\_Xlendi.html](http://www.lsis.org/groplan/article/art_Xlendi.html)
- Gambin, T., V. Andrieu-Ponel, F. Medail, N. Marriner, O. Peyron, V. Montade, T. Gambin, C. Morhange, D. Belkacem & M. Djamali, 2016. 7300 years of vegetation history and climate for the NW Malta: A Holocene perspective. *Climate of the Past* 12, 273–97.
- Ganskopp, D., R. Cruz & D. Johnson, 2000. Least-effort pathways?: a GIS analysis of livestock trails in rugged terrain. *Applied Animal Behaviour Science* 68 (3), 179–90.
- García-Ruiz, J.M., 2010. The effects of land uses on soil erosion in Spain: A review. *Catena* 81, 1–11.
- García-Ruiz, J.M. & N. Lana-Renault, 2011. Hydrological and erosive consequences of farmland abandonment in Europe, with special reference to the Mediterranean region – A review. *Agriculture, Ecosystems and Environment* 140, 317–38.
- García-Ruiz, J.M., E. Nadal-Romero, N. Lana-Renault & S. Begueria, 2013. Erosion in Mediterranean landscapes: Changes and future challenges. *Geomorphology* 198, 20–36.
- Gardiner, W., M. Grasso & D. Sedgeley, 1995. Plio-Pleistocene fault movement as evidence for mega-block kinematics within the Hyblean-Malta Plateau, central Mediterranean. *Journal of Geodynamics* 19, 35–51.
- Gatt, M., 2006a. *Il-Ġeoloġija u l-paleontoloġija tal-Gżejjer Maltin I*. Sensiela Kullana Kulturali, Nru. 68. Pietà, Malta: Publikazzjonijiet Indipendenza.
- Gatt, M., 2006b. *Il-Ġeoloġija u l-paleontoloġija tal-Gżejjer Maltin II*. Sensiela Kullana Kulturali, Nru. 69. Pietà, Malta: Publikazzjonijiet Indipendenza.
- Gauci, R. & J.A. Schembri (eds.), 2019. *Landscapes and Landforms of the Maltese Islands* (World Geomorphological Landscapes.) Cham, Switzerland: Springer Nature.
- Gerasimova, M. & M. Lebedeva-Verba, 2010. Topsoils – Mollic, takyric and yermic horizons, in *Interpretation of Micromorphological Features of Soils and Regoliths*, eds. G. Stoops, V. Marcelino and F. Mees. Amsterdam: Elsevier, 351–68.

- Geertz, C., 1963. *Agricultural Involvement: The Process of Ecological Change in Indonesia*. Los Angeles: University of California Press.
- Gibson, H. & S. Venkateswar, 2015. Anthropological Engagement with the Anthropocene: A Critical Review. *Behaviour and Information Technology* 6, 5–27.
- Giorgianni, M., 1990. *La Pietra Vissuta. Il Paesaggio Degli Iblei*. Palermo: Sellerio Editore.
- Giusti, F., G. Manganelli & P.J. Schembri, 1995. *The Non-marine Molluscs of the Maltese Islands*. Torino: Museo Regionale die Scienze Naturali.
- Glick, T.F., 1995. *From Muslim Fortress to Christian Castle*. Manchester: Manchester University Press.
- Goldberg, P. & R.I. Macphail, 2006. *Practical and Theoretical Geoarchaeology*. Oxford: Blackwells Scientific.
- Gómez Bellard, C., 1995. The first colonization of Ibiza and Formentera (Balearic Islands, Spain): Some more islands out of the stream? *World Archaeology* 26 (3), 442–55.
- Gonzales-Samperiz, P., P. Utrilla, C. Mazo, B.L. Valero-Garces, M. Cruz Sopena, M. Morellon, M.S. Lopez, A. Moreno & M. Bea, 2009. Patterns of human occupation during the early Holocene in the Central Ebro Basin (NE Spain) in response to the 8.2 ka climatic event. *Quaternary Research* 71 (2), 121–32.
- Gorenflo, L.J. & N. Gale, 1990. Mapping regional settlement in information space. *Journal of Anthropological Archaeology* 9 (3), 240–74.
- Gorman, M.L., 1979. *Island Ecology*. (Outline Studies in Ecology.) London: Chapman and Hall.
- Goudie, A.S., 1993. *The Human Impact on the Natural Environment*. Hoboken: Wiley-Blackwell.
- Goudie, A.S. & H.A. Viles, 2016. *Geomorphology in the Anthropocene*. Cambridge: Cambridge University Press.
- Gregg, S.A., 1988. *Foragers and Farmers: Population Interaction and Agricultural Expansion in Prehistoric Europe*.
- Grima, R., 2004. The landscape context of megalithic architecture, in *Malta Before History*, ed. D. Cilia. Malta: Miranda, 327–45.
- Grima, R., 2007. The Cultural Construction of the Landscape in Late Neolithic Malta, in *Cult in Context*, eds. D. Barrowclough & C. Malone. Oxford: Oxbow Books, 35–40.
- Grima, R., 2008a. *The Making of Malta*. Malta: Midsea Books.
- Grima, R., 2008b. Landscape, territories, and the life-histories of monuments in Temple Period Malta. *Journal of Mediterranean Archaeology* 21, 35–56.
- Grima, R., 2011a. Hercules' unfinished labour: the management of Borġ in-Nadur and its landscape, in *Site, Artefacts and Landscape: Prehistoric Borġ in-Nadur, Malta (Praehistorica Mediterranea 3)*, eds. D. Tanasi & N.C. Vella. Monza: Polimettrica, 341–72.
- Grima, R., 2011b. The prehistoric islandscapes, in *The Maritime History of Malta: The First Millennia*, eds. C. Cini & J. Borg. Malta: Salesians of Don Bosco and Heritage Malta, 10–35.
- Grima, R. & S. Farrugia, 2019. Landscapes, landforms and monuments in Neolithic Malta, in *Landscapes and Landforms of the Maltese Islands*, eds. R. Gauci and J.A. Schembri. Cham, Switzerland: Springer Nature, 79–90.
- Grimm, E.C., 1987. CONISS: a FORTRAN 77 program for stratigraphically constrained cluster analysis by the method of incremental sum of squares. *Computers & Geosciences* 13, 13–35.
- Grove, A.T. & O. Rackham, 2003. *The Nature of Mediterranean Europe: An Ecological History*. New Haven: Yale University Press.
- Grundmann, S. & U. Fürst, 1998. *The Architecture of Rome: An Architectural History in 400 Presentations*. Stuttgart: Edition Axel Menges.
- Gruszczynski, M., J.D. Marshall, R. Goldring, M.L. Coleman, L. Malkowski, E. Gazdzicka, J. Semil & P. Gatt, P. 2008. Hiatal surfaces from the Miocene Globigerina Limestone Formation of Malta: biostratigraphy, sedimentology, trace fossils and early diagenesis. *Palaeogeography, Palaeoclimatology, Palaeoecology* 270 (2–3), 239–51.
- Guilaine, J., F. Briois & J-D. Vigne, 2011. *Shillourokambos, un Etablissement Néolithique Précéramique à Chypre. Les fouilles du Secteur 1*. Paris-Athènes: Errance -Ecole française d'Athènes.
- Guilcher, A. & R. Paskoff, 1975. Remarques sur la geomorphologie littorale de l'archipel maltais. *Bulletin de l'Association Geographique de France* 427, 225–31.
- Gunatilaka, A., 2012. Holocene evolution of Arabian coastal sabkhas: a re-evaluation based on stable-isotope analysis, forty years after Shearman's first view of the sabkha, in *Quaternary Carbonate and Evaporite Sedimentary Facies and their Ancient Analogues: A Tribute to Douglas James Shearman*, eds. C.G. St.C. Kendall, A.S. Alsharhan, I. Jarvis & T. Stevens. *International Association of Sedimentologists Special Publication* 43, 113–32.
- Gunderson, L.H., 2000. Resilience in theory and practice. *Annual Review of Ecology and Systematics* 31, 425–39.
- Gvirtzman, G. & M. Wieder, 2001. Climate of the last 53,000 years in the eastern Mediterranean, based on soil-sequence stratigraphy in the coastal plain of Israel. *Quaternary Science Reviews* 20, 1827–49.
- Haggard, S., M. Noland & A. Sen, 2009. *Famine in North Korea: Markets, Aid, and Reform*. New York: Columbia University Press.
- Halstead, P., 2014. *Two Oxen Ahead: Pre-mechanized Farming in the Mediterranean*. Hoboken, New Jersey: John Wiley & Sons.
- Haregeweyn, N., J. Poesen, J. Nyssen, G. Govers, G. Verstraeten, J. de Vente, J. Deckers, J. Moeyersons & M. Haile, 2008. Sediment yield variability in Northern Ethiopia: A quantitative analysis of its controlling factors. *Catena* 75, 65–76.
- Harff, J., G. Bailey & F. Luth (eds.), 2016. *Geology and Archaeology: Submerged Landscapes of the Continental Shelf*. London: Geological Society Special Publications.
- Haslam, S.M., 1969. *Malta's Plant Life*. Malta: Progress Press Co.
- Haslam, S. M., Sell, P.D. & Wolseley, P.A. 1977. *A Flora of the Maltese Islands*. Msida: Malta University Press.
- Havinga, A.J., 1964. Investigation into the differential corrosion susceptibility of pollen and spores in various soil types. *Pollen et Spores* 6, 621–35.
- Havinga, A.J., 1967. Palynology and pollen preservation. *Review of Palaeobotany and Palynology* 2, 81–98.
- Haywood, C., 2012. High spatial resolution electron probe microanalysis of tephra and melt inclusions without

- beam-induced chemical modification. *The Holocene* 22, 119–25.
- Heino, J. & T. Muotka, 2005. Highly nested snail and clam assemblages in boreal lake littorals: roles of isolation, area, and habitat suitability. *Ecoscience* 12, 141–6.
- Herzog, I., 2014. A Review of Case Studies in Archaeological Least-cost Analysis. *Archeologia e Calcolatori* 25, 223–39.
- Herzog, I., 2016. Potential and Limits of Optimal Path Analysis, in *Computational Approaches to Archaeological Spaces*, eds. A. Bevan & M. Lake. New York: Routledge, 179–211.
- Hill, E.A., P.J. Reimer, C.O. Hunt, A.L. Prendergast & G.W. Barker, 2017. Radiocarbon Ecology of the Land Snail *Helix melanosoma* in Northeastern Libya. *Radiocarbon* 9, Special Issue 5, 1–22.
- Hobbs, W.H., 1914. The Maltese Islands: a tectonic-topographic study. *Scottish Geographical Magazine* 30, 1–13.
- Hodder, I. & C. Malone, 1984. Intensive survey of prehistoric sites in the Stilo region, Calabria. *Proceedings of the Prehistoric Society* 50, 121–50.
- Hohlfelder, R.L. (ed.), 2008. 'The maritime world of ancient Rome,' in Proceedings of "The Maritime World of Ancient Rome" Conference held at the American Academy in Rome, 27–29 March 2003. Ann Arbor, Michigan: American Academy in Rome and University of Michigan Press.
- Holliday, V.T. & W.G. Gartner, 2007. Methods of soil P analysis in archaeology. *Journal of Archaeological Science* 34, 301–33.
- Holling, C.S., 1973. Resilience and stability of ecological systems. *Annual Review of Ecology and Systematics* 4, 1–23.
- Hooker, D. (ed.), 1994. *History of Western Art: From Ancient Greece to the Present Day*. London: Barnes and Noble.
- Horden, P. & N. Purcell (eds.), 2000. *The Corrupting Sea: A Study of Mediterranean Prehistory*. Oxford: Blackwell Publishers.
- Horn, P.P., 1997. *The Victorian Town Child*. Stroud: Sutton Publishing Ltd.
- House, M.R., K.C. Dunham & J.C. Wigglesworth, 1961. Geology of the Maltese Islands, in *Background for Development*, eds. H. Bowen-Jones, J.C. Dewdney & B.W. Fisher. Newcastle: University of Durham, 24–33.
- Hughes, J.D., 2011. Ancient deforestation revisited. *Journal of History of Biology* 44, 43–57.
- Hughes, J.K., 1999. Ancient Tracks of the Maltese Islands. *The Geographical Journal* 165, 62–78.
- Hughes, Q., 1986. *The Building of Malta during the Period of the Knights of St. John 1530–1795*. Malta: Progress Press.
- Hughes, Q., 1993. The Architectural Development of Hospitaller Malta, in *Hospitaller Malta 1530–1798: Studies on Early Modern Malta and the Order of St. John of Jerusalem*, ed. V. Mallia Milanese. Malta: Mireva, 483–507.
- Hughes, J.D. & J. Thirgood, 1982. Deforestation, erosion, and forest management in ancient Greece and Rome. *Forest & Conservation History* 26, 60–75.
- Hunt, C.O., 1997. Quaternary deposits in Maltese Islands: A microcosm of environmental change in Mediterranean lands. *Geo-Journal* 41 (2), 101–9.
- Hunt, C.O., 1998. The impact of agricultural soil erosion on prehistoric and historic-period valley sedimentation in Central Italy, in *Il Sistema upmo-ambiente tra passato e presente* 1, eds. A.C. Livadié & F. Ortolani. Bari: Edipuglia, 99–111.
- Hunt, C.O., 2001. Palynology. *Mediterranean Archaeology* 13, 111–14.
- Hunt, C.O., 2015. Palynology of some archaeological deposits from Tas-Silġ. In *Tas-Silġ, Marsaxlokk (Malta) 1: Archaeological Excavations conducted by the University of Malta, 1996–2005*, ed. A. Bonanno. University of Malta, 437–50.
- Hunt, C.O. & M. Fiacconi, 2018. Pollen taphonomy of cave sediments: What does the pollen record in caves tell us about external environments and how do we assess its reliability? *Quaternary International* 485, 68–75.
- Hunt, C.O. & D. Gilbertson, 1995. Human activity, landscape change and valley alluviation in the Feccia Valley, Tuscany, Italy, in *Mediterranean Quaternary River Environments*, eds. J. Lewin, M.G. Macklin & J.C. Woodward. Rotterdam: Balkema, 167–76.
- Hunt, C.O. & P.J. Schembri, 1999. Quaternary environments and biogeography of the Maltese Islands, in *Facets of Maltese Prehistory*, eds. A. Mifsud & C. Savona Ventura. Malta: Prehistoric Society of Malta, 41–75.
- Hunt, C.O. & P.J. Schembri, 2018. Historic-period terrestrial environments and soil erosion in the Maltese Islands: evidence from mollusc assemblages from cave-fills at Ghajn il-Kbira, near Victoria, Gozo. *Ancient Near Eastern Studies, Supplement* 4, 67–74.
- Hunt, C.O. & N.C. Vella, 2004/2005. A view from the countryside: pollen from a field at Mistra Valley, Malta. *Malta Archaeological Review* 7, 61–69.
- Hunt, C.O., D.D. Gilbertson & R.E. Donohue, 1992. Palaeobiological evidence for agricultural soil erosion in the Montagnola Senese, Italy, in *Past and Present Soil Erosion: Archaeological and Geographical Perspectives*, eds. M.G. Bell & J. Boardman. Oxford: Oxbow Monograph 23, 163–74.
- Hunt, C.O., D.D. Gilbertson & H.A. El-Rishi, 2007. An 8000-year history of landscape, climate and copper exploitation in the Middle East: the Wadi Faynan and the Wadi Dana National Reserve in southern Jordan. *Journal of Archaeological Science* 34, 1306–38.
- Hyde, H.P.T., 1955. *Geology of the Maltese Islands*. Malta: Lux Press.
- Imeson, A.C., F.J.P.M. Kwaad & H.J. Mucher, 1980. Hillslope processes and deposits in forested areas in Luxembourg, in *Timescales in Geomorphology*, eds. R.A. Cullingford, D.A. Davidson & J. Lewin. Chichester: John Wiley & Sons, 31–42.
- Indruszewski, G. & C.M. Barton, 2006. Simulating sea surfaces for modeling Viking Age seafaring in the Baltic Sea, in *Computer Applications and Quantitative Methods in Archaeology, Proceedings of the 34th Conference*, 616–30.
- IUCN, 2017. *The IUCN Red List of Threatened Species. Version 2017-2*. <http://www.iucnredlist.org>.
- Jaccarini, C.J., 2002. *Ir-Razzett. The Maltese Farmhouse*. Malta: Open Library.
- Jaccarini, C.J. & M.N. Cauchi, 1999. The enigmatic rock-cut pans of Mgarr ix-Xini. *Melita Historica* XII (4), 419–44.
- Jaouadi, S., V. Lebreton, V. Bout-Roumazeilles, G. Siani, R. Lakhdar, R. Boussoffara, L. Dezileau, N. Kallel, B.

- Mannai-Tayech & N. Comborieu-Nebout, 2016. Environmental changes, climate and anthropogenic impact in south-east Tunisia during the last 8 kyr. *Climates of the Past* 12, 1339–59.
- Jenks, G.F., 1967. The Data Model Concept in Statistical Mapping. *International Yearbook of Cartography* 7, 186–90.
- Johnson, M., 1996. *An Archaeology of Capitalism*. New York: Wiley.
- Jolliffe, I.T., 2002. *Principal Component Analysis* (2nd edition). Dordrecht: Springer.
- John, C.S., M. Mutti & T. Adatte, 2003. Mixed carbonate-siliciclastic record on the North African margin (Malta) – coupling of weathering processes and mid Miocene climate. *Geological Society of America Bulletin* 115 (2), 217–29.
- Jones, A. & C. Hunt, 1994. Walls, wells and water supply: aspects of the cultural landscape of Gozo. *Landscape Issues* 15, 24–9.
- Jones, S., 2009. *Darwin's Island: The Galapagos in the Garden of England*. London: Little, Brown.
- Jongerijs, A., 1983. Micromorphology in agriculture, in *Soil Micromorphology*, eds. P. Bullock & C.P. Murphy. Berkhamsted: A.B. Academic Publishers, 111–38.
- Judson, S., 1963. Erosion and deposition of Italian stream valleys during historic time. *Science* 140, 898–9.
- Kantner, J., 2004. Geographical Approaches for Reconstructing Past Human Behavior from Prehistoric Roadways, in *Spatially Integrated Social Science*, eds. M.F. Goodchild & D.G. Janelle. Oxford: Oxford University Press, 323–44.
- Karkanias, P. & P. Goldberg, 2010. Phosphatic features, in *Interpretation of Micromorphological Features of Soils and Regoliths*, eds. G. Stoops, V. Marcelino & F. Mees. Amsterdam: Elsevier, 521–41.
- Kemp, R. 1986. Pre-Flandrian Quaternary soils and pedogenic processes in Britain. In ed. V. Wright *Palaeosols, Their Recognition and Interpretation*. London; Blackwell, 242–62.
- Kinnaird, T.C., D.C.W., Sanderson, C. Burbidge & E. Peltenburg, 2007. OSL Dating of Neolithic Kissonerga-Mylothkia, Cyprus. *Neolithics* 2/07, 51–7.
- Kinnaird, T.C., J.E. Dixon, A.H.F. Robertson, E. Peltenburg & D.C.W. Sanderson, 2013. *Mediterranean Archaeology and Archaeometry* 13, 49–62.
- Kinnaird, T.C., C.J. Scarre, L. Oosterbeck & D.C.W. Sanderson, 2015. 'OSL dating of remnants of the megalithic site of Cabeço dos Pendentes, Portugal.' Unpublished SUERC Technical Report, University of Glasgow.
- King, C.H. & D. Bertsch, 2015. Historical perspective: snail control to prevent schistosomiasis. *PLoS Neglected Tropical Diseases* 9 (4), e0003657.
- Kirch, P.V., 1986. *Island Societies: Archaeological Approaches to Evolution and Transformation*. Cambridge: Cambridge University Press.
- Kirkby, M.J., 1969. Erosion by water on hillslopes, in *Water, Earth and Man*, ed. R.J. Chorley. London: Methuen, 229–38.
- Knapp, A.B., 1992. Archaeology and Annales: time, space, and change, in *Archaeology, Annales and Ethnohistory*, ed. A.B. Knapp. (New Directions in Archaeology.) Cambridge: Cambridge University Press, 1–21.
- Kolb, M. J., 2005. The genesis of monuments among the Mediterranean islands, in *The Archaeology of Mediterranean Prehistory*, eds. E. Blake & B. Knapp. Oxford: Wiley-Blackwell, 156–79.
- Kondo, Y. & Y. Seino, 2009. GPS-aided Walking Experiments and Data-driven Travel Cost Modeling on the Historical Road of Nakasendō-Kisoji (Central Highland Japan), in *Making History Interactive. Computer Applications and Quantitative Methods in Archaeology. Proceedings of the 37th International Conference, Williamsburg, Virginia, USA, March 22–26, 2009*, eds. L. Fische, B. Frischer & S. Wells. (BAR International Series.) Oxford: Archaeopress, 158–65.
- Kooistra, M.J. & M.M. Pulleman, 2010. Features related to faunal activity, in *Interpretation of Micromorphological Features of Soils and Regoliths*, eds. G. Stoops, V. Marcelino & F. Mees. Amsterdam: Elsevier, 397–414.
- Kosmas, C., N. Danalatos, L.H. Cammeraat, M. Chabart, J. Diamantopoulos, R. Farand, L. Gutierrez, A. Jacob, H. Marques, J. Martinez-Ferrenandez, A. Mizara, N. Moustakas, J.M. Nicolau, C. Oliveros, G. Pinna, R. Puddu, J. Puigdefabregas, M. Roxo, A. Simao, G. Stamou, N. Tomasi, D. Usai & A. Vacca, 1997. The effect of land use on runoff and soil erosion rates under Mediterranean conditions. *Catena* 29, 45–59.
- Kuhn, P., J. Aguilar & R. Miedema, 2010. Textural features and related horizons, in *Interpretation of Micromorphological Features of Soils and Regoliths*, eds. G. Stoops, V. Marcelino & F. Mees. Amsterdam: Elsevier, 217–50.
- Kwaad, F.J.P.M. & H.J. Mucher, 1979. The formation and evolution of colluvium on arable land in Northern Luxembourg. *Geoderma* 22, 173–92.
- Lambeck, K., F. Antonioli, M. Anzidei, L. Ferranti, G. Leoni, G. Scicchitano & S. Silenzi, 2011. Sea level change along the Italian coasts during Holocene and prediction for the future. *Quaternary International* 232, 250–7.
- Lane, C.S., V.L. Cullen, D. White, C.W.F. Bramham-Law & V.C. Smith, 2014. Cryptotephra as a dating and correlation tool in archaeology. *Journal of Archaeological Science* 42 (Supplement C), 42–50.
- Lanfranco, E., 1984. *Guida alle escursioni a Malta; Aprile 1984*. Societa Botanica Italiana sezione Siciliana.
- Lanfranco, E., 1995. The vegetation of the Maltese Islands, in *The non-marine molluscs of the Maltese Islands*, eds. F. Giusti, G. Manganelli & P.J. Schembri. Torino, Italy: Museo Regionale di Scienze Naturali, 27–9.
- Lanfranco, E. & P.J. Schembri, 1986. Maltese wetlands and wetland biota. *Potamon* (Malta) 15, 122–5.
- Lang, D.M., 1960. *Soils of Malta and Gozo*. Colonial Office, Colonial Research Studies Report No. 29. London: H.M.S.O.
- Lang, D.M., 1961. Soils of Malta and Gozo, in *Malta. Background for Development*, eds. H. Bowen-Jones, J. Dewdney & W. Fisher. Durham: Department of Geography, Durham Colleges, 83–98.
- Langgut, D., R. Cheddadi, J.S. Carrion, M. Cavanagh, D. Colombaroli, W. Eastwood, R. Greenberg, T. Litt, A.-M. Mercuri, A. Miebach, N. Roberts, H. Woldring & J. Woodbridge, 2019. The origin and spread of olive cultivation in the Mediterranean basin: the fossil

- pollen evidence. *Holocene. Special issue. The Changing Face of the Mediterranean: Land Cover, Demography and Environmental Change* 29 (5), 902–22.
- Laparidou, S., M.N. Ramsey & A.M. Rosen, 2015. Introduction to the special issue 'The Anthropocene in the Longue Durée'. *The Holocene* 25, 1537–8.
- Le Bas, M.J., R.W. Le Maitre, A. Streckeisen & B. Zanettini, 1986. A chemical classification of volcanic rocks based on the total alkali–silica diagram. *Journal of Petrology* 27 (3), 745–50.
- Lee, R., 2012. *Fernand Braudel, the Longue Durée, and World Systems Analysis*. Albany: University of New York Press.
- Lelong, R. & B. Souchier, 1982. Ecological significance of the weathering complex: relative importance of general and local factors, in *Constituents and Properties of Soils*, eds. M. Bonneau & B. Souchier. London: Academic Press, 82–108.
- Lemerle, F. & Y. Pauwels, 2008. *Baroque Architecture: 1600–1750*. Michigan: Random House Incorporated.
- Lespez, L., 2003. Geomorphic responses to long-term land use changes in Eastern Macedonia (Greece). *Catena* 51, 181–208.
- Lessa, G.C., R.J. Angulo, P.C. Giannini & A.D. Araújo, 2000. Stratigraphy and Holocene evolution of a regressive barrier in south Brazil. *Marine Geology* 165, 87–108.
- Lewis, H., 2012. *Investigating Ancient Tillage: An experimental and soil micromorphological study*. B.A.R. International Series S2388. Oxford: Archaeopress.
- Lifton, N.A. & G.G. Chase, 1992. Tectonic, climatic and lithologic influences on landscape fractal dimension and hypsometry: implications for landscape evolution in the San Gabriel Mountains, California. *Geomorphology* 5, 77–114.
- Lindbo, D.L., M.H. Stolt & M.J. Vepraskas, 2010. Redoximorphic features, in *Interpretation of Micromorphological Features of Soils and Regoliths*, eds. G. Stoops, V. Marcelino & F. Mees. Amsterdam: Elsevier, 129–47.
- Linderholm J. & E. Lundberg, 1994. Chemical Characterization of Various Archaeological Soil Samples using Main and Trace Elements determined by Inductively Coupled Plasma Atomic Emission Spectrometry. *Journal of Archaeological Science* 21, 303–14.
- Locatelli, D. 2005–2006. Nuove ricerche a San Pawl Milqi: primi risultati. *Rendiconti della Pontificia Accademia Romana di Archeologia* 78, 257–73.
- Locatelli, D., 2008. L'oro verde di Malta. Stime sulla produzione olearia nella villa San Pawl Milqi, in *L'Africa Romana: le ricchezze dell'Africa: risorse, produzioni, scambi. Atti del XVII Convegno di studio, Sevilla, 14–17 dicembre 2006*, eds. J. González, P. Ruggieri, C. Vismara, & R. Zucca. Rome: Carocci, 1351–74.
- Löfgren, O., 2004. The Sweetness of Home, in *The Anthropology of Space and Place: Locating Culture*, eds. S.M. Low & D. Lawrence-Zuñiga. New York: Wiley, 142–59.
- Lomolino, M.V., B.R. Riddle, R.J. Whittaker & J.H. Brown, 2010. *Biogeography* (4th edition) Sunderland, Mass.: Sinauer Associates.
- Long, T., C.O. Hunt & D. Taylor, 2016. Radiocarbon anomalies suggest late onset of agricultural intensification in the catchment of the southern part of the Yangtze Delta, China. *Catena* 147, 586–94.
- Loughran, R.J., G.L. Elliott, L.T. Maliszewski & B.L. Campbell, 2000. Soil loss and viticulture at Pokolbin, New South Wales, Australia. *IAHS Publications* 261, 141–52.
- Loveland, P.J. & D.C. Findlay, 1982. Composition and development of some soils on glauconitic Cretaceous (Upper Greensand) rocks in southern England. *Journal of Soil Science* 33, 279–94.
- Lo Vetro, D. & F. Martini, 2016. Mesolithic in Central-Southern Italy: Overview of lithic productions. *Quaternary International* 423, 279–302.
- Luo, W., 1998. Hypsometric analysis with a geographic information system. *Computers and Geosciences* 24, 815–21.
- Luttrell, A.T., 1975. Approaches to Medieval Malta, in *Medieval Malta: Studies on Malta Before the Knights*, ed. A.T. Luttrell. London: The British School at Rome, 1–70.
- MacArthur, R.H. & E.O. Wilson, 1963. An equilibrium theory of insular zoogeography. *Evolution* 17 (4), 373–87.
- MacArthur, R.H. & E.O. Wilson, 1967. *The Theory of Island Biogeography*. Princeton, NJ: Princeton University Press.
- MacDonald, R., 1974. Nomenclature and petrochemistry of the peralkaline oversaturated extrusive rocks. *Bulletin Volcanologique* 38 (2), 498–516.
- MacLeod, D.A., 1980. The origin of the red Mediterranean soils in Epirus, Greece. *Journal of Soil Science* 31, 125–36.
- Macklin, M.G., S. Tooth, P.A. Brewer, P.L. Noble & G.A.T. Duller, 2010. Holocene flooding and river development in a Mediterranean steep-land catchment: The Anapodaris Gorge, south central Crete, Greece. *Global and Planetary Change* 70, 35–52.
- Magny, M., B. Vanniere, G. Zanchetta, E. Fouache, G. Touchais, L. Petrika, C. Coussot, A-V. Walter-Simonnet & F. Arnau, F. 2009. Possible complexity of the climatic event around 4300–3800 cal. BP in the central and western Mediterranean. *The Holocene* 19, 823–33.
- Magny, M., B. Vanniere, C. Calo, L. Millet, A. Leroux, O. Peyron, G. Zanchetta, T. La Mantia & W. Tinner, 2011. Holocene hydrological changes in south-western Mediterranean as recorded by lake-level fluctuations at Lago Preola, a coastal lake in southern Sicily, Italy. *Quaternary Science Reviews* 30, 2459–75.
- Magri, E., 2009 (1906). *Ruins of a Megalithic Temple at Xeuchia. (Shewkiyah), Gozo, Malta. First Report. Reprinted with Introduction by Josef Mario Briffa SJ*. Valletta: Heritage Malta – Salesians of Don Bosco (Malta).
- Magri, O., 2006. A geological and geomorphological review of the Maltese Islands with special reference to the coastal zone. *Territoris* 6, 7–26
- Magro Conti, J. & P.C. Saliba (eds.), 2007. *The Significance of Cart-Ruts in Ancient Landscapes*. Malta: Culture 2000 & Midsea Books.
- Mahoney, L., 1996. *5000 years of Architecture in Malta*. Malta: Valletta Publications.
- Mallia-Milanes, V., 1992. *Venice and Hospitaller Malta, 1530–1798: aspects of a relationship*. Marsa, Malta: PEG.
- Mallia-Milanes, V., 1993. *Hospitaller Malta, 1530–1798: Studies on Early Modern Malta and the Order of St John of Jerusalem*. Msida, Malta: Mireva.

- Malm, A. & A. Hornborg, 2014. The geology of mankind? A critique of the Anthropocene narrative. *The Anthropocene Review* 1, 62–9.
- Malone, C. 1985. Pots, prestige and ritual in neolithic southern Italy. In eds. C. Malone & S. Stoddart, *Papers in Italian Archaeology IV. Vol. ii. Prehistory*. Oxford: British Archaeological Reports, 118–51.
- Malone, C.A.T., 1997–8. Processes of Colonisation in the central Mediterranean. *Accordia Research Papers* 7, 37–57.
- Malone, C. 2003. The Italian Neolithic: a synthesis of research. *Journal of World Prehistory* 17 (3), 235–312.
- Malone, C. 2015. The Neolithic in Mediterranean Europe. In eds. C. Fowler, J. Harding, J. & D. Hofmann, *The Oxford Handbook of Neolithic Europe*. Oxford: Oxford University Press, 175–94.
- Malone, C., 2017. Review of Clare Manen, in La transition néolithique en Méditerranée. Actes du colloque. Transitions en Méditerranée, ou comment des chasseurs devinrent agriculteurs. Muséum de Toulouse, 14–15 avril 2011, eds. T. Perrin & J. Guilaine. *Germania* 94, 291–5.
- Malone, C. & S. Stoddart (eds.), 1994. *Territory, Time and State: The Archaeological Development of the Gubbio Basin*. Cambridge: Cambridge University Press.
- Malone, C. & S. Stoddart, 2000. The current state of prehistoric ceramic studies in Mediterranean survey, in *Extracting Meaning from Ploughsoil Assemblages*, eds. R. Francovich, H. Patterson & G. Barker. Oxford: Oxbow Books, 95–104.
- Malone, C. & S. Stoddart, 2009. Conclusions. In C. Malone, S. Stoddart, A. Bonanno & D. Trump (eds.), *Mortuary Customs in Prehistoric Malta. Excavations at the Brochtorff Circle at Xagħra (1987–94)*. Cambridge: McDonald Institute for Archaeological Research, 361–84.
- Malone, C. and S. Stoddart, 2013. Ritual failure and the temple collapse of prehistoric Malta, in *Ritual Failure: Archaeological Perspectives*, eds. V.G. Koutrafouris & J. Sanders. Leiden: Sidestone Press, 63–84.
- Malone, C.A.T., D.A. Barrowclough & S. Stoddart, 2007. Introduction, in *Cult in Context*, eds. D. Barrowclough & C. Malone. Oxford: Oxbow Books, 1–7.
- Malone, C., R. Grima, R. McLaughlin, E. Parkinson, S. Stoddart & N. Vella, In press. *Temple Places: Excavating Cultural Sustainability in Prehistoric Malta*. Volume 2 of Fragility and sustainability – Studies on Early Malta, the ERC-funded Project. Cambridge: McDonald Institute for Archaeological Research.
- Malone, C., S. Stoddart & D. Trump, 1988. A house for the temple builders. Recent investigations on Gozo, Malta. *Antiquity* 62, 297–301.
- Malone, C., C. Brogan, R. McLaughlin & S. Stoddart, 2016. Small island sustainability in a case study for Malta. *Scienze delle Antichità* 2, 403–16.
- Malone, C., S. Stoddart, A. Bonanno & D. Trump (eds.), 2009a. *Mortuary Customs in Prehistoric Malta. Excavations at the Brochtorff Circle at Xagħra (1987–94)*. Cambridge: McDonald Institute for Archaeological Research.
- Malone, C., R. Grima, J. Magro-Conti, D. Trump, S. Stoddart & H. Hardisty, 2009b. The domestic environment, in *Mortuary Customs in Prehistoric Malta. Excavations at the Brochtorff Circle at Xagħra (1987–94)*, eds. C. Malone, S. Stoddart, A. Bonanno & D. Trump. Cambridge: McDonald Institute for Archaeological Research, 41–56.
- Mandarini, E., 1860. *Storia di S. Rocco da Mompellieri e delle sue più celebri pestilenze dal suo tempo sino ai nostri giorni (XIV–XIX)*. Venezia: Lito-tipografia Mozzoni.
- Mangerud, J.A.N. & S. Gulliksen, 1975. Apparent radiocarbon ages of recent marine shells from Norway, Spitsbergen, and Arctic Canada. *Quaternary Research* 5 (2), 263–73.
- Marchetti, M., 2002. Environmental changes in the central Po Plain (northern Italy) due to fluvial modifications and anthropogenic activities. *Geomorphology* 44, 361–73.
- Marcus, J. & C. Stanish, 2006. Introduction, in *Agricultural Strategies*, eds. J. Marcus & C. Stanish. Los Angeles: Cotsen Institute of Archaeology, 1–13.
- Margaritis, E. & M.K. Jones, 2008. Greek and Roman Agriculture, in *The Oxford Handbook of Engineering and Technology in the Classical World*, ed. J.P. Oleson. Oxford: Oxford University Press, 158–74.
- Marriner, N., T. Gambin, M. Djamali, C. Morhange & M. Spiteri, 2012. Geoarchaeology of the Burmarrad ria and early Holocene human impacts in western Malta. *Palaeogeography, Palaeoclimatology, Palaeoecology* 339, 52–65.
- Marriner, N., D. Kaniewski, T. Gambin, B. Gambin, B. Vanniere, C. Morhange, M. Djamali, K. Tachikawa, V. Robin, D. Rius & E. Bard, E. 2019. Fire as a motor of rapid environmental degradation during the earliest peopling of Malta 7500 years ago. *Quaternary Science Reviews* 212, 199–205.
- Mathias, G., 2015. *What Could the Longue Durée Mean for the History of Modern Sciences?* Boston: Greenstone.
- Matthews, R., 2005. The rise of civilization in southwest Asia, in *The Human Past: A Textbook of World Prehistory*, ed. C. Scarre. London: Thames & Hudson, 432–71.
- Mauz, B., N. Elmejdoub, R. Nathan & Y. Jedoui, 2009. Last interglacial coastal environments in the Mediterranean–Saharan transition zone. *Palaeogeography, Palaeoclimatology, Palaeoecology* 279, 137–46.
- Mayes, J., 2001. Rainfall variability in the Maltese Islands: changes, causes and consequences. *Geography* 86 (2), 121–30.
- Mayr, A., 1908. *The Prehistoric Remains of Malta*. Translated from the German. Malta: Printed for Private Circulation.
- McCarthy, F.M.G., K.N. Mertens, M. Ellegaard, K. Sherman, V. Pospelova, S. Ribeiro, S. Blasco & D. Vercauteren, 2011. Resting cysts of freshwater dinoflagellates in southeastern Georgian Bay (Lake Huron) as proxies of cultural eutrophication. *Review of Palaeobotany and Palynology* 166 (1–2), 46–62.
- McLaughlin, T.R., S. Stoddart & C. Malone, 2018. Island risks and the resilience of a prehistoric civilization. *World Archaeology* 50 (4), 570–83.
- Mederos Martín, A., 2005. La cronología Fenicia entre el Mediterráneo Oriental y Occidental. *Anejos del Archivo Español de Arqueología* 33, 305–46.
- Mejdahl, V., 1979. Thermoluminescence dating: Beta-dose attenuation in quartz grains. *Archaeometry* 21, 61–72.
- Mercieca, S., 2005. The production of salt in Malta in Early Modern times, in *La navigation du Savior: Réseau des*

- Arsenaux Historiques de la Méditerranée*, ed. S. Giannino. University of Malta and UNESCO: Villefranche-sur-Mer: Euromed Heritage, 122–38.
- Mercuri, A. M., C.A. Accorsi, M.B. Mazzanti, G. Bosi, A. Cardarelli, D. Labate, M. Marchesini & G.T. Grandi, 2006. Economy and environment of Bronze Age settlements – Terramaras – on the Po Plain (Northern Italy): first results from the archaeobotanical research at the Terramara di Montale. *Vegetation History and Archaeobotany* 16, 43–60.
- Metcalf, C.R., 1996. Report on the botanical determination of charcoal samples, in *Skorba: Excavations Carried Out on Behalf of the National Museum of Malta, 1961–1963*, D.H. Trump. (Reports of the Research Committee of the Society of Antiquaries of London.) London and the National Museum of Malta: The Society of Antiquaries, Appendix V.
- Micallef, A., F. Foglini, L. Bas, L. Angeletti, V. Maselli, A. Pasuto & M. Taviani, M. 2013. The submerged paleo-landscape of the Maltese Islands: Morphology evolution and relation to Quaternary environment change. *Marine Geology* 335, 129–47.
- Micallef, S., 2019. The terraced character of the Maltese rural landscape: a case study of Buskett Area, in *Landscapes and Landforms of the Maltese Islands*, eds. R. Gauci & J.A. Schembri. (World Geomorphological Landscapes.) Cham, Switzerland: Springer Nature, 153–65.
- Middleton, W.D. & D.T. Price, 1996. Identification of activity areas by multi-element characterization of sediments from modern and archaeological house floors using Inductively Coupled Plasma-Atomic Emission spectroscopy. *Journal of Archaeological Science* 23, 673–87.
- Milanesi, C., R. Vignani, F. Ciampolini, C. Faleri, L. Cattani, A. Moroni, S. Arrighi, M. Scali, P. Tiberi, E. Sensi, W. Wang & M. Cresti, 2006. Ultrastructure and DNA sequence analysis of single *Concentricystis* cells from Alta Val Tiberina Holocene sediments. *Journal of Archaeological Science* 33, 1081–7.
- Miller, H.M.-L., 2006. Water Supply, Labor Requirements, and Land Ownership in Indus Floodplain Agricultural Systems, in *Agricultural Strategies*, eds. J. Marcus & C. Stanish. Los Angeles: Cotsen Institute of Archaeology, 92–128.
- Mitchell, P. & J. Dewdney, 1961. The Maltese climate and weather, in *Malta, a Background for Development*, eds. H. Bowen-Jones, J.C. Dewdney & W.B. Fisher. Durham: Durham University Press, 48–82.
- Mizota, M., M. Kusakabe & M. Noto, 1988. Eolian contribution to soil development on Cretaceous limestones in Greece as evidenced by oxygen isotope composition of quartz. *Geochemical Journal* 22, 41–46.
- Mommsen, H., A. Bonanno, K. Chetkuti Bonavita, I. Kakoulli, M. Musumeci, C. Sagona, A. Schwedt, N. C. Vella & N. Zacharias 2006. Characterization of Maltese Pottery of the Late Neolithic, Bronze Age and Punic Period by Neutron Activation Analysis, in *Geomaterials in Cultural Heritage*, eds. M. Maggetti & B. Messiga, (Special Publications 257.) London: The Geological Society of London, 81–9.
- Moore, P.D., J.A. Webb & M.E. Collinson, 1991. *Pollen analysis* (2nd edition). Oxford: Blackwell Scientific.
- Morter, J., 1990. The Excavations at Capo Alfiere, 1987–present, in *The Chora or Croton 1983–89*. (Institute of Classical Archaeology.) Austin: University of Texas at Austin, 16–30.
- Morris, M.W., 2002. *Soil Science and Archaeology: Three Test Cases from Minoan Crete*. Philadelphia: The Institute for Aegean Prehistory Academic Press.
- Morris, T.O., 1952. *The Water Resources of Malta*. Malta: Government Printing Office.
- Morrison, K.D., 1994. The intensification of production: archaeological approaches. *Journal of Archaeological Method and Theory* 1 (2), 111–59.
- Moscato, S., 1993. Some reflections on Malta in the Phoenician World. *Journal of Mediterranean Studies* 3 (2), 286–90.
- Mottershead, D.N., P. Farres & A. Pearson, 2010. The changing Maltese soil environment: Evidence from the ancient cart tracks at San Pawl Tat-Tarġa, Naxxar. *Geological Society London Special Publications* 331, 219–29.
- Mottershead, D., A. Pearson & M. Schaefer, 2017. The cart ruts of Malta: an applied geomorphology approach. *Antiquity* 82, 1065–79.
- Mucher, H.J., T. Carballas, F. Guitan Ojea, P.D. Jungerius, S.B. Kroonenberg & M.C. Villar, 1972. Micromorphological analysis of effects of alternating phases of landscape stability and instability on two soil profiles in Galicia, N.W. Spain. *Geoderma* 8, 241–66.
- Mucher, H.J., H. van Steijn & F.J.P.M. Kwaad, 2010. Coluvial and mass wasting deposits, in *Interpretation of Micromorphological Features of Soils and Regoliths*, eds. G. Stoops, V. Marcelino & F. Mees. Amsterdam: Elsevier, 37–48.
- Muhs, D.R., J. Budahn, A. Avila, G. Skipp, J. Freeman & D. Paterson, 2010. The role of African dust in the formation of Quaternary soils on Mallorca, Spain and the implications for the genesis of Red Mediterranean soils. *Quaternary Science Reviews* 29, 2518–43.
- Murphy, C.P., 1986. *Thin Section Preparation of Soils and Sediments*. Berkhamsted: A.B. Academic.
- Murray, A.S. & A.G. Wintle, 2000. Luminescence dating of quartz using an improved single-aliquot regenerative-dose protocol. *Radiation Measurements* 32, 57–73.
- Murray, J., 1890. The Maltese Islands, with special reference to their geological structure. *Scottish Geographical Magazine* 6, 449–88.
- Murray, M.A., 1923–1929. *Excavations in Malta*. London: B. Quaritch.
- Murrieta-Flores, P., 2012. Understanding human movement through spatial technologies. The role of natural areas of transit in the Late Prehistory of South-western Iberia. *Trabajos de Prehistoria* 69, 103–22.
- Murrieta-Flores, P., 2014. Space and Temporality in Herding Societies. Exploring the Dynamics of Movement during the Iberian Late Prehistory, in *Space and Time in Mediterranean Prehistory*, eds. S. Souvatzi & A. Hadji. New York: Routledge, 196–213.
- Natali, E. & V. Forgi, 2018. The beginning of the Neolithic in Southern Italy and Sicily. *Quaternary International* 470, 253–69.
- National Statistics Office, 2016. *Agriculture and Fisheries 2014*. Valletta: National Statistics Office.

- National Statistics Office, 2019. *Regional Statistics Malta 2019 Edition*. Valletta: National Statistics Office.
- Newbery, J., 1968. The perched water table in the Upper Limestone aquifer of Malta. *Journal of the Institution of Engineers (India)* 22, 551–70.
- Newhard, J.M.L., N.S. Levine & A.D. Phebus, 2014. The development of integrated terrestrial and marine pathways in the Argo-Saronic region, Greece. *Cartography and Geographic Information Science* 41 (4), 379–90.
- Noti, R., J.F.N. van Leeuwen, D. Colombaroli, E. Vescovi, S. Pasta, T. La Mantia & W. Tinner, 2009. Mid- and Late-Holocene vegetation and fire history of Biviere di Gela, a coastal lake in southern Sicily. *Vegetation History and Archaeobotany* 18, 371–87.
- O'Brien, C., K. Selby, Z. Ruiz, A. Brown, M. Dinnin, C. Caseldine, P. Langdon & I. Stuijts, 2005. A sediment-based multiproxy palaeoecological approach to the environmental archaeology of lake dwellings (crannogs), central Ireland. *The Holocene* 15 (5), 707–19.
- Oil Exploration Directorate, 1993. *Geological Map of the Maltese Islands. Sheet 1 – Malta – Scale 1:25,000*. Malta: Office of the Prime Minister.
- Oonk, S., C.P. Slomp & D.J. Huisman, 2009. Geochemistry as an aid in archaeological prospection and site interpretation: current issues and research directions. *Archaeological Prospection* 16, 35–51.
- O'Sullivan, D. & D.J. Unwin, 2010. *Geographic Information Analysis* (2nd edition). Hoboken: John Wiley & Sons, Inc.
- Orengo, H.A. & C. Miró, 2011. Following Roman waterways from a computer screen: GIS-based approaches to the analysis of Barcino's aqueducts, in *Go Your Own Least Cost Path: Spatial Technology and Archaeological Interpretation; Proceedings of the GIS Session at EAA 2009*, eds. J.W.H. Verhagen, A.G. Posluschny & A. Danielisova. Oxford: Archaeopress, 47–53.
- Pace, A., 1995. Malta and the Dawn of the Metal Ages. *Treasures of Malta* 2 (1), 55–9.
- Pace, A. (ed.), 2000. *The Hal Saflieni Hypogeum 4000 BC – 2000 AD*. Malta: National Museum of Archaeology.
- Pace, A., 2004. Malta During Prehistory: An Overview, in *Malta: Roots of a Nation; The Development of Malta from an Island People to an Island Nation*, ed. K. Gambin. Malta: Midsea Books Ltd., 25–44.
- Pace, A. & G. Azzopardi, 2008. Economic landscapes of the Maltese Islands during antiquity: a survey of ancient wine presses. *Poster Presented at the XVII Congresso Internazionale di Archeologia Classica, Rome*.
- Pagnoux, C., L. Bouby, S. Ivorra, C. Petit, C., S.M. Valamoti, T. Pastor & J.F. Terral, 2015. Inferring the agrobiodiversity of *Vitis vinifera* L. (grapevine) in ancient Greece by comparative shape analysis of archaeological and modern seeds. *Vegetation History and Archaeobotany* 24, 75–84.
- Panagos, P., C. Ballabio, P. Borrelli, K. Meuseburger, A. Klik, S. Rousseva, M.P. Tadic, S. Michaelides, M. Hrabalíková, P. Olsen, J. Aalto, M. Lakatos, A. Rymaszewicz, A. Dumitrescu, S. Begueria & C. Alewell, 2015a. Rainfall erosivity in Europe. *Science of The Total Environment* 511, 801–14.
- Panagos, P., P. Borrelli & K. Meuseburger, 2015b. A new European slope length and steepness factor (LS-factor) for modeling soil erosion by water. *Geosciences (Switzerland)* 5, 117–26.
- Panagos, P., P. Borrelli, J. Poesen, K. Meuseburger, C. Ballabio, E. Lugato, L. Montanarella & C. Alewell, 2015c. The new assessment of soil loss by water erosion in Europe. *Environmental Science & Policy* 54, 438–47.
- Pantis, J. & N.S. Margaritis, 1988. Can systems dominated by asphodels be considered as semi-deserts? *International Journal of Biometeorology* 32, 87–91.
- Parnell, A., J. Haslett, J.R.M. Allen, C.E. Buck & B. Huntley, 2008. A flexible approach to assessing synchronicity of past events using Bayesian reconstructions of sedimentation history. *Quaternary Science Reviews* 27, 1872–85.
- Paskoff, R. & P. Sanlaville, 1978. Observations géomorphologiques sur les côtes de l'archipel maltais. *Zeitschrift für Geomorphologie* 22 (3), 310–28.
- Pásztor, E. & C. Roslund, 1997. Orientation of Maltese 'dolmens'. *Journal of European Archaeology* 5, 183–9.
- Patacchini, A. & G. Nicatore, 2016. Potential paths and historical road network between Italy and Egypt: from predictive to postdictive approach, in *Keep the Revolution Going. Proceedings of the 43rd Annual Conference on Computer Applications and Quantitative Methods in Archaeology*, eds. S. Campana, R. Scopigno, G. Carpentiero & M. Cirillo. Oxford: Archaeopress, 669–81.
- Patton, M., 1996. *Islands in Time: Island Sociogeography and Mediterranean Prehistory*. London: Routledge.
- Peccerillo, A. & S.R. Taylor, 1976. Geochemistry of eocene calc-alkaline volcanic rocks from the Kastamonu area, Northern Turkey. *Contributions to Mineralogy and Petrology* 58, 63–81.
- Pedley, H.M., 1974. Miocene seafloor subsidence and later subaerial solution subsidence structures in the Maltese Islands. *Proceedings of the Geological Association* 85, 533–47.
- Pedley, H.M., 1975. 'The Oligo-Miocene Sediments of the Maltese Islands.' Unpublished PhD thesis, University of Hull.
- Pedley, H.M., 1978. A new lithostratigraphical and palaeoenvironmental interpretation for the coralline limestone formations (Miocene) of the Maltese Islands. *Overseas Geology and Mineral Resources* 54, 1–17. London: H.M.S.O.
- Pedley, H.M., 1980. The occurrence and sedimentology of a Pleistocene travertine in the Fiddien Valley, Malta. *Proceedings of the Geologists' Association* 91 (3), 195–202.
- Pedley, H.M., 1993. *Geological maps of the Maltese Islands. Scale, 1: 25,000, 2 sheets. In Oil Exploration Directorate, 1993. Sheet 1 (Malta); Sheet 2 (Gozo and Comino)*. Keyworth: British Geological Survey.
- Pedley, H.M., 2011. The Calabrian stage, Pleistocene highstand in Malta: a new marker for unravelling the late Neogene and Quaternary history of the islands. *Journal of the Geological Society, London* 168, 913–26.
- Pedley, H.M. & S.M. Bennett, 1985. Phosphorites, hardgrounds and syndepositional subsidence: a paleoenvironmental model from Miocene of the Maltese Islands. *Sedimentary Geology* 45, 1–34.
- Pedley, M., D. Bosence, C. Dart & S. Pratt, 1990. Tectonic and stratigraphic evolution of the Maltese Islands, in *Field*

- Guide to the Cainozoic Platform Carbonates of the Maltese Islands*, ed. D. Bosence. Nottingham: International Sedimentological Congress, 9–39.
- Pedley, H.M., M. Hughes-Clarke & P. Galea, 2002. *Limestone Isles in a Crystal Sea: The Geology of the Maltese Islands*. Malta: PEG Ltd.
- Pedley, H.M., M. House & B. Waugh, 1976. The geology of Malta and Gozo. *Proceedings of the Geologists' Association* 87, 325–41.
- Pedley, H.M., M.R. House & B. Waugh, 1978. The geology of the Pelagian block: the Maltese Islands, in *The Ocean Basins and Margins: 4B, the Western Mediterranean*, eds. A.E.M. Nairn, W.H. Kanes & F.G. Stehli. London: Plenum Press, 417–33.
- Pedley, H.M., M.H. Clark & P. Galea, 2002. *Limestone Isles in a Crystal Sea: The Geology of the Maltese Islands*. San Gwann: Publishers Enterprises Group Ltd.
- Peet, T.E., 1910. Contributions to the Study of the Prehistoric Period in Malta. *Papers of the British School at Rome* 5 (3), 141–63.
- Pelle, T., F. Scarciglia, E. Allevato, G. Di Pasquale, M.F. La Russa, D. Marino, E. Natali, G. Robustelli & V. Tine, 2013. Reconstruction of Holocene environmental changes in two archaeological sites of Calabria (Southern Italy) using an integrated pedological and anthracological approach. *Quaternary International* 288, 206–14.
- Pérez-Peña, J., J. Azañón & A. Azor, 2009. CalHypso: An ArcGIS extension to calculate hypsometric curves and their statistical moments. Applications to drainage basin analysis in SE Spain. *Computers & Geosciences* 35, 1214–23.
- Peyron, O., S. Goring, I. Dormoy, U. Kotthoff, J. Pross, J.-L. de Beaulieu, R. Drescher-Schneider, B. Vanniure & M. Magny, 2011. Holocene seasonality changes in the central Mediterranean region reconstructed from the pollen sequences of Lake Accessa (Italy) and Tenaghi Philippon (Greece). *The Holocene* 21, 131–46.
- Peyron, O., N. Combourieu-Nebout, D. Brayshaw, S. Goring, V. Andrieu-Ponel, S. Desprat, W. Fletcher, B. Gambin, C. Ioakim, S. Joannin, U. Kotthoff, K. Kouli, V. Montade, J. Pross, L. Sadori & M. Magny, 2017. Precipitation changes in the Mediterranean basin during the Holocene from terrestrial and marine pollen records: a model-data comparison. *Climate Past* 13, 249–65.
- Piccarreta, M., M. Caldara, D. Capolongo & F. Boenzi, 2011. Holocene geomorphic activity related to climatic change and human impact in Basilicata, Southern Italy. *Geomorphology* 128, 137–47.
- Piccarreta, M., D. Capolongo & M.N. Miccoli, 2012. Deep gullies entrenchment in valley fills during the Late Holocene in the Basento basin, Basilicata (southern Italy). *Geomorphologie: Relief, Processus, Environnement* 18 (2), 239–48.
- Pingel, T.J., 2010. Modeling Slope as a Contributor to Route Selection in Mountainous Areas, *Cartography and Geographic Information Science* 37 (2), 137–48.
- Poch, R.M., O. Artieda, J. Herrero & M. Lebedeva-Verba, 2010. Gypsic features, in *Interpretation of Micromorphological Features of Soils and Regoliths*, eds. G. Stoops, V. Marcelino & F. Mees. Amsterdam: Elsevier, 195–216.
- Pollak, M.D., 1991. *Turin 1564–1680: Urban Design, Military Culture and the Creation of the Absolutist Capital*. Chicago: University of Chicago Press.
- Prampolini, M., F. Fogliani, S. Biolchi, S. Devoto, S. Angelini & M. Soldati, 2017. Geomorphological mapping of terrestrial and marine areas, northern Malta and Comino (central Mediterranean Sea). *Journal of Maps* 13, 457–69.
- Preece, R.C., 1998. Mollusca, in *Late Quaternary Environmental Change in North-west Europe. Excavations at Holywell Coombe, South-east England*, eds. R.C. Preece & D. Bridgland. London: Chapman and Hall, 158–212.
- Prescott, J.R. & J.T. Hutton, 1994. Cosmic ray contributions to dose rates for luminescence and ESR dating: Large depths and long-term time variations. *Radiation Measurements* 23 (2), 497–500.
- Pross, J., U. Kotthoff, U.C. Muller, O. Peyron, I. Dormoy, G. Schmiedl, S. Kalaitzidis & A.M. Smith, 2009. Massive perturbation in terrestrial ecosystems of the Eastern Mediterranean region associated with the 8.2 ka climatic event. *Geology* 37, 887–90.
- Puglisi, D., 2014. Tectonic evolution of the Sicilian Maghrebian Chain inferred from stratigraphic and petrographic evidences of Lower Cretaceous and Oligocene flysch. *Geologica Carpathica* 65, 293–305.
- Pyne-O'Donnell, S.D.F., 2004. 'The Factors Affecting the Distribution and Preservation of Microtephra Particles in Lateglacial and Early Holocene Lake Sediments.' Unpublished PhD, University of London.
- Quintin, J., 1536. *Insulae Melitae Descriptio*. Lyons: Gryphius.
- Rainbird, P., 1999. Islands out of time: a critique of island archaeology. *Journal of Mediterranean Archaeology* 12, 216–34.
- Rainbird, P., 2007. *The archaeology of islands*. Cambridge: Cambridge University Press.
- Ramón-Laca, L. & D.J. Mabberley, 2004. The ecological status of the carob-tree (*Ceratonia siliqua*, Leguminosae) in the Mediterranean. *Botanical Journal of the Linnean Society* 144, 431–6.
- Raneri, S., Barone, G., Mazzoleni, P., Tanasi, D. & C. Emanuele, 2015. Mobility of men versus mobility of goods: Archaeometric characterization of Middle Bronze Age pottery in Malta and Sicily (15th–13th century BC). *Periodico di Mineralogia* 84, 23–44.
- Recchia, G., 2004–2005. Il tempio e l'area sacra megalitica di Tas-Silg: le nuove scoperte dagli scavi nei livelli del III e del II millennio a.C. *Scienze dell'Antichità* 12, 233–62.
- Recchia, G. & Cazzella, A. 2011. Maltese prehistoric ceramic sequence and chronology: On-going problems, in *Ceramics of the Phoenician-Punic World: Collected Essays*, ed. C. Sagona. (Ancient Near Eastern Studies Supplement 36). Louvain: Peeters, 373–96.
- Recchia, G. & G. Fiorentino, 2015. Archipelagos adjacent to Sicily around 2200 BC: attractive environments or suitable geo-economic locations?, in *2200 BC – A climatic breakdown as a cause for the collapse of the old world?*, *Proceedings of the 7th Archaeological Conference of Central Germany*, eds. H.H. Meller, H.W. Arz, R. Jung & R. Risch. Halle: Landesmuseums für Vorgeschichte, 305–20.

- Reed, J.M., A.C. Stevenson & S. Juggins, 2001. A multi-proxy record of Holocene climate change in southwestern Spain: The Laguan de Medina, Cadiz. *The Holocene* 11 (6), 707–19.
- Rehfeld, U. & A.W. Janssen, 1995. Development of phosphatized hardgrounds in the Miocene Globigerina Limestone of the Maltese archipelago, including a description of the *Gamopleura melitensis* sp. nov. *Facies* 33 (1), 91–106.
- Reille, M., 1992. 'Pollen et spores d'Europe et d'Afrique du Nord.' Unpublished report. Laboratoire de Botanique Historique et Palynologie, Université d'Aix Marseille III.
- Reille, M., 1995. 'Pollen et Spores D'Europe et D'Afrique Du nord' (Supplement 1). Unpublished report. Marseilles: Laboratoire de Botanique Historique et Palynologie.
- Reille, M., 1998. 'Pollen et spores d'Europe et d'Afrique du nord' (Supplement 2). Unpublished report. Marseilles: Laboratoire de Botanique Historique et Palynologie.
- Reimer, P. & R. Reimer, 2001. A marine reservoir correction database and on-line interface. *Radiocarbon* 43 (2A), 2 Part I, 461–3.
- Reimer, R.W. & R.J. Reimer, 2017. An online application for  $\Delta R$  calculation. *Radiocarbon* 59 (5), 1623–7.
- Reimer, P.J., H.S. McDonald, J.R. Reimer, S. Svyatko & M. Thompson, 2015. *Laboratory protocols used for AMS radiocarbon dating at the 14CHRONO Centre, The Queen's University, Belfast*. Portsmouth: English Heritage.
- Reimer, P.J., E. Bard, A. Bayliss, J.W. Beck, P.G. Blackwell, C. Bronk Ramsey, C.E. Buck, H. Cheng, R.L. Edwards & M. Friedrich, 2013. IntCal13 and Marine13 radiocarbon age calibration curves 0–50,000 years cal BP. *Radiocarbon* 55 (4), 1869–87.
- Renard, K.G., G.R. Foster, G.A. Weesies, D.K. McCool & D.C. Yoder, 1997. *Predicting Soil Erosion by Water: A Guide to Conservation Planning with the Revised Universal Soil Loss Equation (RUSLE)*. Washington: USDA Handbook 703.
- Renfrew, C., 1972. Malta and calibrated radiocarbon chronology. *Antiquity* 46, 141–4.
- Renfrew, C., 1973. *Before Civilization: The Radiocarbon Revolution and Prehistoric Europe*. London: Johnathan Cape.
- Renfrew, C. & E.V. Level, 1979. Exploring dominance: Predicting polities from centres, in Renfrew, C. & Cooke, K.L. (eds.) *Transformations: Mathematical Approaches to Culture*. New York: Academic Press, 145–68.
- Renfrew, A.C. & M. Wagstaff (eds.), 1982. *An island polity. The archaeology of exploitation in Melos*. Cambridge: Cambridge University Press.
- Renschler, C.S. & J. Harbor, 2002. Soil erosion assessment tools from point to regional scales – The role of geomorphologists in land management research and implementation. *Geomorphology* 47, 189–209.
- Renzulli, I., P. Santi, T. Gambin & P. Bueno Serrano, 2019. Pantelleria Island as a centre of production for the Archaic Phoenician trade in basaltic millstones: New evidence recovered and sampled from a shipwreck off Gozo (Malta) and a terrestrial site at Cádiz (Spain). *Journal of Archaeological Science: Reports* 24, 338–49.
- Reuther, C.D., 1984. Tectonics of the Maltese Islands. *Centro (Malta)* 1, 1–16.
- Reuther, C.D. & G.H. Eisbacher, 1985. Pantelleria Rift – crustal extension in a convergent intraplate setting. *Geologische Rundschau* 74 (3), 585–97.
- Richards-Rissetto, H. & K. Landau, 2014. Movement as a means of social (re)production: using GIS to measure social integration across urban landscapes. *Journal of Archaeological Science* 41, 365–75.
- Rizzo, C., 1932. *Geology of the Maltese Islands*. Malta: Government Printing Office.
- Roberts, N., 2002. Did prehistoric landscape management retard the post-glacial spread of woodland in South-west Asia? *Antiquity* 76, 1002–10.
- Robb, J., 2007. *The Early Mediterranean Village: Agency, Material Culture and Social Change in Neolithic Italy*. Cambridge: Cambridge University Press.
- Rogers, S.R., C. Collet & R. Lugon, 2014. Least cost path analysis for predicting glacial archaeological site potential in central Europe, in *Across Time and Space. Papers from the 41st Computer Applications and Quantitative Methods in Archaeology Conference*, ed. A. Travaglia. Amsterdam: Amsterdam University Press, 261–75.
- Rolé, A., 2007. The Terraced Landscapes of the Maltese Islands Malta, in *Europe's Living Landscape. Essays on Exploring Our Identity in the Countryside*, eds. B. Pedroli, A. Van Doorn, G. De Blust, M. Paracchini, D. Wescher & F. Bunce. Uitgeverij: KNNV, 405–20.
- Rosenberg, M.S. & C.D. Anderson, 2011. PASSaGE: Pattern Analysis, Spatial Statistics and Geographic Exegesis. Version 2. *Methods in Ecology and Evolution* 2 (3), 229–32.
- Ruan, J., F. Kherbouche, D. Genty, D. Blamart, H. Cheng, F. Dewilde, S. Hachi, R.L. Edwards, E. Régner & J.-L. Michelot, 2016. Evidence of a prolonged drought ca. 4200 yr BP correlated with prehistoric settlement abandonment from the Gueldaman GLD1 Cave, Northern Algeria. *Climates of the Past* 12, 1–14.
- Ruffell, A., C. Hunt, R. Grima, R. McLaughlin, C. Malone, P.J. Schembri, C. French & S. Stoddart, 2018. Water and cosmology in the prehistoric Maltese World: Fault control on the hydrogeology of Ġgantija. *Journal of Archaeological Science. Reports* 20, 183–91.
- Russell, N.J. & S.J. Armitage, 2012. A comparison of single-grain and small aliquot dating of fine sand from Cyrenaica, northern Libya. *Quaternary Geochronology* 10, 62–7.
- Sabelberg, E., 1983. The persistence of palazzi and intra-urban structures in Tuscany and Sicily. *Journal of Historical Geography* 9 (3), 247–64.
- Sabelberg, E., 1986. The 'South-Italian City' – a Cultural-Genetic Type of City. *GeoJournal* 13, 59–66.
- Sadori, L., G. Zanchetta & M. Giardini, 2008. Last Glacial to Holocene palaeoenvironmental evolution at Lago di Pergusa (Sicily, Southern Italy) during the Bronze Age: A multi-disciplinary approach. *Quaternary International* 113, 5–17.
- Sadori, L., C. Giraudi, A. Masi, M. Magny, E. Ortu, G. Zanchetta & A. Izdebski, 2016. Climate, environment and society in southern Italy during the last 2000 years. A review of the environmental, historical and archaeological evidence. *Quaternary Science Reviews* 136, 173–88.

- Sadori, L., E. Ortu, O. Peyron, G. Zanchetta, B. Vanniere, M. Desmet & M. Magny, 2013. The last 7 millennia of vegetation and climate changes at Lago di Pergusa (central Sicily, Italy). *Climatic Past* 9, 1969–84.
- Sagona C., 2002. *The Archaeology of Punic Malta*. Leuven: Peeters Press.
- Sagona C., 2004. Land Use in Prehistoric Malta. A Re-Examination of the Maltese 'Cart Ruts'. *Oxford Journal of Archaeology* 23, 45–60.
- Sagona, C., 2015. *The Archaeology of Malta: from the Neolithic through the Roman period*. Cambridge: Cambridge University Press.
- Said-Zammit, G.A., 1997. *Population, Land Use and Settlement on Punic Malta. A contextual analysis of the burial evidence*. Oxford: B.A.R. International Series 682.
- Said-Zammit, G.A., 2016. *The Development of Domestic Space in the Maltese Islands from the Late Middle Ages to the Second Half of the Twentieth Century*. Oxford: Archaeopress.
- Saliba, P.C., J. Magro Conti & C. Borg, 2002. *A Study of Landscape and Irrigation Systems at Is-Simblija limits of Dingli, Malta & Conservation Report*. Malta: Gutenberg.
- Sanderson, D.C.W., 1987. *Thermoluminescence dating of vitrified Scottish forts*. Paisley: Paisley College.
- Sanderson, D.C.W., 1988. Thick source beta counting (TSBC): A rapid method for measuring beta dose-rates. *International Journal of Radiation Applications and Instrumentation. Part B. Nuclear Tracks and Radiation Measurements* 14, 203–7.
- Sanderson, D.C.W. & S. Murphy, 2010. Using simple portable OSL measurements and laboratory characterisation to help understand complex and heterogeneous sediment sequences for luminescence dating. *Quaternary Geochronology* 5, 299–305.
- Sanderson, D.C.W., P. Bishop, I. Houston & M. Boonsener, 2001. Luminescence characterisation of quartz-rich cover sands from NE Thailand. *Quaternary Science Reviews* 20, 893–900.
- Sanderson, D.C.W., P. Bishop, M.T. Stark & J.Q. Spencer, 2003. Luminescence dating of anthropogenically reset canal sediments from Angkor Borei, Mekong Delta, Cambodia. *Quaternary Science Reviews* 22, 1111–21.
- Sanderson, D.C.W., T.C. Kinnaird, F. Leandri & C. Leandri, 2014. 'OSL Dating of Neolithic Monuments at Capu di Lugu, Belvédère-Campomoro, SW Corsica.' Unpublished SUERC Technical Report, University of Glasgow.
- Scarre, C. (ed.) 2005. The world transformed: from foragers and farmers to states and empires. In *The Human Past: A Textbook of World Prehistory*. London: Thames & Hudson.
- Scerri, S., 2019. Sedimentary evolution and resultant geological landscapes, in *Landscapes and Landforms of the Maltese Islands* (World Geomorphological Landscapes), eds. R. Gauci & J.A. Schembri. Cham, Switzerland: Springer Nature, 31–47.
- Schembri, J.A., 2003. *Coastal Land use in the Maltese islands: a Description and Appraisal*, PhD Dissertation, University of Durham [Available at Durham E-Theses Online: <http://etheses.dur.ac.uk/4417/>]
- Schembri, J.A., 2019. The Geographical Context of the Maltese Islands, in *Landscapes and Landforms of the Maltese Islands* (World Geomorphological Landscapes), eds. R. Gauci & J.A. Schembri. Cham, Switzerland: Springer Nature, 9–17.
- Schembri, P.J., 1993. Physical geography and ecology of the Maltese Islands: A brief overview, in *Optionses Mediterraneeennes: Serie B. Etudes et Recherches* 7, eds. S. Busuttill, F. Lerin & L. Mizzi. Montpellier: Centre International de Hautes Etudes Agronomiques Mediterraneeennes, 27–39.
- Schembri, P.J., 1994. Malta's natural heritage, in *Malta culture and identity*, eds. H. Frenedo and O. Friggeeri. Valletta: Ministry of Youth and the Arts, 105–24.
- Schembri, P.J., 1995. Molluscan samples from the Żebbuġ tomb, in Mortuary ritual of 4th millennium BC Malta: the Żebbuġ period chambered tomb from the Brochtorff Circle at Xagħra (Gozo), eds. C. Malone, S. Stoddart, A. Bonanno, T. Gouder & D. Trump. *Proceedings of the Prehistoric Society* 61, 342.
- Schembri, P.J., 1997. The Maltese Islands: climate, vegetation and landscape. *GeoJournal* 41, 1–11.
- Schembri, P.J., 2003. Current state of knowledge of the Maltese non-marine fauna, in *Malta Environment and Planning Authority. Malta Environment and Planning Authority Annual Report and Accounts 2003*. Malta Environment and Planning Authority. Floriana: Malta, 33–65.
- Schembri, P.J. & Lanfranco, E. 1993. Development and the natural environment in the Maltese Islands, in *The development process in small island states*, eds. D.G. Lockhart, D. Drakakis-Smith & P.J. Schembri. London & New York: Routledge, 247–66.
- Schembri, P.J., K. Fenech & K. Terribile, 2018. Unlocking the past through the present: exploring the use of present-day land snail assemblages as indicators of past environments in the Maltese Islands, in *The lure of the antique. Essays on Malta and Mediterranean archaeology in honour of Anthony Bonanno*, eds. N.C. Vella, A.J. Frenedo & H.C.R. Vella. (Ancient Near Eastern Studies Supplement Series 54.) Leuven, Belgium: Peeters, 75–86.
- Schembri, P.J., M. Pedley, C.O. Hunt & S. Stoddart, 2009. The environment of the Maltese Islands, in *Mortuary Customs in Prehistoric Malta. Excavations at the Brochtorff Circle at Xagħra (1987–94)*, eds. C. Malone, S. Stoddart, A. Bonanno & D. Trump. Cambridge: McDonald Institute for Archaeological Research, 17–39.
- Schepanski, K., 2018. Transport of Mineral Dust and Its Impact on Climate. *Geosciences* 8 (5), 151–70.
- Scheuven, D., L. Schutz, K. Kandler, M. Ebert & S. Weinbruch, S. 2013. Bulk composition of northern African dust and its source sediments – A compilation. *Earth Science Reviews* 116, 170–90.
- Schlecht, E., U. Dickhoefer, E. Gumpertsberger & A. Buerkert, 2009. Grazing itineraries and forage selection of goats in the Al Jabal al Akhdar mountain range of northern Oman. *Journal of Arid Environments* 73 (3), 355–63.
- Schlecht, E., P. Hiernaux, I. Kadaouré, C. Hülsebusch & F. Mahler, 2006. A spatio-temporal analysis of forage availability and grazing and excretion behaviour of herded and free grazing cattle, sheep and goats in

- Western Niger. *Agriculture, Ecosystems & Environment* 113 (1–4), 226–42.
- Sciberras, D., 1999. The Maltese dolmens, in *Facets of Maltese Prehistory*, eds. A. Mifsud & C. Savona Ventura. Malta: Prehistoric Society of Malta, 101–6.
- Seddon, M.B., Ü. Kebapçı, M. Lopes-Lima, D.V. Damme & K.G. Smith, 2014. Freshwater mollusks, in *The Status and Distribution of Freshwater Biodiversity in the Eastern Mediterranean*, eds. K.G. Smith, V. Barrios, W.R.T. Darwall & C. Numa. ICUN: Cambridge, UK, Malaga, Spain and Gland, Switzerland: ICUN, 43–56.
- Shackleton, J.C., T.H. van Andel & C.N. Runnels, 1984. Coastal Paleogeography of the Central and Western Mediterranean during the last 125,000 Years and its archaeological implications. *Journal of Field Archaeology* 11, 307–14.
- Shennan, S., 2018. *The First Farmers of Europe: An Evolutionary Perspective*. Cambridge: Cambridge University Press.
- Shepherd, J.D. & J.R. Dymond, 2003. Correcting satellite imagery for the variance of reflectance and illumination with topography. *International Journal of Remote Sensing* 24, 3503–14.
- Siani, G., M. Paterne, M. Arnold, E. Bard, B. Métivier, N. Tisnerat & F. Bassinot, 2000. Radiocarbon Reservoir Ages in the Mediterranean Sea and Black Sea. *Radiocarbon* 42 (2), 271–80.
- Simberloff, D.S., 1974. Equilibrium theory of island biogeography and ecology. *Annual Review of Ecology and Systematics* 5, 161–82.
- Simpson, D.J. & C.O. Hunt, 2009. Scoping the past human environment: a case study of pollen taphonomy at the Haua Fteah, Cyrenaica, Libya. *Archaeological Review from Cambridge* 24, 2, 27–46.
- Simpson, I.A., 1998. Early land management at Tofts Ness, Sanday, Orkney: the evidence of thin section micromorphology, in *Life on the Edge: Human Settlement and Marginality*, eds. C.M. Mills & G. Coles. Oxford: Oxbow Monograph 100, 91–8.
- Simpson, I.A., E.B. Guttman & A. Shepherd, 2006. Characterising midden in Neolithic settlement construction: an assessment from Skara Brae, Orkney. *Geoarchaeology* 21, 221–35.
- Soil Survey Staff, 1999. *Soil Taxonomy*. (U.S. Department of Agriculture, Agriculture Handbook 436.) Washington, D.C.: Department of Agriculture.
- Soto-Berelev, M., P.L. Fall, S.E. Falconer & E. Ridder, 2015. Modeling vegetation dynamics in the Southern Levant through the Bronze Age. *Journal of Archaeological Science* 53, 94–109.
- Smith, B.D., 2011. General patterns of niche construction and the management of ‘wild’ plant and animal resources by small-scale pre-industrial societies. *Philosophical Transactions of the Royal Society B: Biological Sciences* 366 (1566), 836–48.
- Smith, R.M., 1986. Comparing Traditional Methods for Selecting Class Intervals on Choropleth Maps. *The Professional Geographer* 38, 62–7.
- Sourisseau, J.-C. 2015. Xlendi, réflexions sur la cargaison de l'épave. *Homepage of Laboratoire des Sciences de l'Information et des Systèmes, Centre Camille-Jullian, Centre National de la Recherche Scientifique (France)*, [http://www.lsis.org/groplan/papers/groplan\\_livableXlendiCargaisonOctobre2015.pdf](http://www.lsis.org/groplan/papers/groplan_livableXlendiCargaisonOctobre2015.pdf)
- Spratt, T.A.B., 1843. On the geology of the Maltese Islands. *Proceedings of the Geological Society* 4, 225–9.
- Spratt, T.A.B., 1854. *The Geology of Malta and Gozo*. Valletta, Malta: Literary and Scientific Society of Malta.
- Stanley, D.J. & A.K. Hait, 2000. Deltas, radiocarbon dating, and measurements of sediment storage and subsidence. *Geology* 28 (4), 295–8.
- Stavi, I., E.D. Ungar, H. Lavee & P. Sarah, 2008. Surface microtopography and soil penetration resistance associated with shrub patches in a semiarid rangeland. *Geomorphology* 94 (1–2), 69–78.
- Stockmarr, J., 1971. Tablets with spores used in absolute pollen analysis. *Pollen Spores* 13, 614–21.
- Stoddart, S. n.d. *Survey Instructions*. Unpublished archive held in the National Museum of Malta.
- Stoddart, S., 1997–8. Contrasting political strategies in the islands of the southern central Mediterranean. *Accordia Research Papers* 7, 59–73.
- Stoddart, S.K.F., 1999. Long term dynamics of an island community: Malta 5500 BC – 2000 AD, in *Social Dynamics in the Central Mediterranean*, ed. R.H. Tykot. Sheffield: Sheffield Academic Press, 137–47.
- Stoddart, S.K.F., 2015. Mediating the Dominion of Death in Prehistoric Malta. In *Death Rituals, Social Order and the Archaeology of Immortality in the Ancient World*. ‘Death Shall Have No Dominion’, eds. A.C. Renfrew, M. Boyd & I. Morley. Cambridge: Cambridge University Press, 130–7.
- Stoddart, S. & C. Malone, 2015. Prehistoric Maltese Death: Democratic Theatre or Elite Democracy?, eds. Z.L. Devlin & E.-J. Graham, *Death Embodied: Archaeological Approaches to the Treatment of the Corpse*. Oxford: Oxbow, 160–74.
- Stoddart, S., G. Barber, C. Duhig, G. Mann, T. O’Connell, L. Lai, D. Redhouse, R.H. Tykot, & C. Malone, 2009. The Human and Animal Remains, in *Mortuary Customs in Prehistoric Malta. Excavations at the Brochtorff Circle at Xaghra (1987–94)*, eds. C. Malone, S. Stoddart, A. Bonanno & D. Trump. Cambridge: McDonald Institute for Archaeological Research, 315–40.
- Stoddart, S., J. Woodbridge, A. Palmisano, A.-M. Mercuri, S. Mensing, D. Colombaroli, L. Sadori, D. Magri, F. di Rita, M. Giardini, M. Mariotti Lippi, C. Montanari, C. Bellini, A. Florenzano, P. Torri, A. Bevan, S. Shennan, R. Fyfe & N. Roberts. 2019. Tyrrhenian central Italy: Holocene population and landscape ecology. *Holocene. Special issue* 29 (5), 761–75.
- Stoddart, S. R. Power, J. Thompson, B. Mercieca Spiteri, R. McLaughlin & C. Malone (eds.), in press. *Temple People: Bioarchaeology, Resilience and Culture in Prehistoric Malta*. Volume 3 of Fragility and Sustainability – Studies in Early Malta, the ERC-funded FRAGSUS Project. Cambridge: McDonald Institute for Archaeological Research.
- Stoops, G., 2003. *Guidelines for analysis and description of soil and regolith thin sections*. Madison, Wisconsin: Soil Science Society of America, Inc.

- Stoops, G. & V. Marcelino, 2010. Lateritic and bauxitic materials, in *Interpretation of Micromorphological Features of Soils and Regoliths*, eds. G. Stoops, V. Marcelino & F. Mees. Amsterdam: Elsevier, 329–50.
- Stoops, G., V. Marcelino & F. Mees (eds.), 2010. *Interpretation of Micromorphological Features of Soils and Regoliths*. Amsterdam: Elsevier.
- Strahler, A.N., 1952. Hypsometric (area-altitude) analysis of erosional topography. *Geological Society of America Bulletin* 63, 1117–42.
- Stuiver, M. & H.A. Pollach, 1977. Discussion: Reporting of <sup>14</sup>C data. *Radiocarbon* 19 (3), 355–63.
- Stuiver, M., G.W. Pearson & T.F. Braziunas, 1986. Radiocarbon age calibration of marine samples back to 9000 cal yr BP. *Radiocarbon* 28, 980–1021.
- Stuiver, M., P.J. Reimer, E. Bard, J.W. Beck, G.S. Burr, K.A. Hughen, B. Kromer, G. McCormac, J. van der Plicht & M. Spurk, 1998. INTCAL98 radiocarbon age calibration 24,000–0 cal BP. *Radiocarbon* 40 (3), 1041–83.
- Sultana, D., 2015. Numerical Modelling of Soil Erosion Susceptibility in the Maltese Islands using Geographic Information Systems and the Revised Universal Soil Loss Equation (RUSLE). *Xjenza Online – Journal of The Malta Chamber of Scientists* 3, 41–50.
- Svarajasingham, S., 1971. *The soils of Malta*. (UNOP/SF Project MAT/5, Water disposal and water supply). Rome: Food and Agriculture Organization of the United Nations.
- Tanasi, D., 2008. *La Sicilia e l'arcipelago Maltese nell'età del Bronzo Medio*. (1. ed.) Palermo: Officina di studi medievali.
- Tanasi, D., 2010. Bridging the gap, New data on the relationship between Sicily, the Maltese Archipelago and the Aegean in the Middle Bronze Age. *Mare Internum* 2, 111–19.
- Tanasi, D., 2013. Prehistoric painted pottery in Malta: a century later. *Malta Archaeological Review* 2008–2009 (9), 5–13.
- Tanasi, D., 2014. Lighting up the dark: the role of Ghar Miridum in Maltese Prehistory, in *From Cave to Dolmen. Ritual and symbolic aspects in the prehistory between Sciacca, Sicily and the central Mediterranean*, ed. D. Gulli. Oxford: Archaeopress Archaeology, 287–308.
- Tanasi, D. & N.C. Vella, 2011a. Taking Stock, in *Site, Artefacts and Landscape. Prehistoric Borg in-Nadur, Malta*, eds. D. Tanasi & N.C. Vella. (Praehistorica Mediterranea 3). Monza: Polimetrica, 413–7.
- Tanasi, D. & Vella, N.C. (eds.) 2011b. *Site, Artefacts and Landscape: Prehistoric Borg in-Nadur, Malta*. Monza: Polimetrica.
- Tanasi, D. & N. C. Vella, 2014. Islands and mobility: exploring Bronze Age connectivity in the south-central Mediterranean, in *The Cambridge Prehistory of the Bronze and Iron Age Mediterranean*, eds. P. Van Dommelen & B. Knapp. Cambridge: Cambridge University Press, 184–201.
- Tanasi, D. & N.C. Vella (eds.), 2015. *The Late Prehistory of Malta: Essays on Borg in-Nadur and other sites*. Oxford: Archaeopress.
- Teeter, S.L., 2012. *A GIS Analysis of Archaeological Trails and Site Catchments in the Grand Canyon, Arizona*. Northern Arizona University.
- Thake, M.A. 1985a. The biogeography of the Maltese Islands illustrated by the Clausiliidae. *Journal of Biogeography* 12, 269–87.
- Thake, M.A., 1985b. Land snails from the Mellieha Quaternary Deposit. *Potamon (Malta)* 14, 93.
- Thompson, A., 2006. The Character of a Wall. The changing construction of agricultural walls on the island of Gozo. *OMERTAA Journal of Applied Anthropology* 2007, 31–7.
- Thompson, J.E., E. Parkinson, R. McLaughlin, R.P. Barratt, R.K. Power, B. Mercieca-Spiteri, S. Stoddart & C. Malone, 2020. Placing and remembering the dead in late Neolithic Malta: bioarchaeological and spatial analysis of the Xaghra Circle Hypogeum, Gozo. *World Archaeology*. DOI: 10.1080/00438243.2019.1745680.
- Thornes, J.B., 2007. Modelling soil erosion by grazing: Recent developments and new approaches. *Geographical Research* 45 (1), 13–26.
- Tinè, V. & S. Tusa, 2012. Il Neolitico in Sicilia. *Dai Ciclopodi Agli Ecisti, Società e Territorio Nella Sicilia Preistorica e Protostorica. Atti dell'Istituto Italiano di Preistoria e Protostoria. San Cipirello (PA), 16–19 Novembre 2006*. Florence: Istituto Italiano di Preistoria e Protostoria, 49–80.
- Tinner, W. & A.F. Lotter, 2001. Central European vegetation response to abrupt climate change at 8.2 ka. *Geology* 29, 551–4.
- Tinner, W., J.F.N. van Leeuwen, D. Colombaroli, E. Vescovi, W.O. van der Knaap, P.D. Henne, S. Pasta, S. D'Angelo & T. La Mantia, 2009. Holocene environment and climate changes at Gorgo Basso, a coastal lake in southern Sicily, Italy. *Quaternary Science Reviews* 28, 1498–510.
- Tite, M.S. & C. Mullins, 1971. Enhancement of the magnetic susceptibility of soils on archaeological sites. *Archaeometry* 13, 209–19.
- Tobler, W., 1993. Three Presentations on Geographical Analysis and Modeling, Technical Report 93–1, NCGIA Technical Reports 1, 1–26.
- Tonna, S., 1985. 'Origins of Planning on Malta Island and Its Evolution – A Study of Human Settlements.' Unpublished BE & A thesis, University of Malta.
- Trechmann, C.T., 1938. Quaternary Conditions in Malta. *The Geological Magazine* 75, 1–26.
- Tripcevich, N., 2007. *Quarries, Caravans, and Routes to Complexity. Prehispanic Obsidian in the South-Central Andes*. University of California (Santa Barbara).
- Trump, D.H., 1961a. Skorba, Malta and the Mediterranean. *Antiquity* 35, 300–3.
- Trump, D.H., 1961b. The later prehistory of Malta. *Proceedings of the Prehistoric Society* 27, 253–62.
- Trump D.H., 1962. In-Nuffara, Rabat, Gozo, storage pit. *Report on the Working of the Museum Department for the Year 1960*. Malta: Department of Information, 5.
- Trump, D.H., 1966. *Skorba. Excavations carried out on behalf of the National Museum of Malta. 1961–3*. (Research Reports of the Society of Antiquaries of London 22.) London: Society of Antiquaries.
- Trump, D.H., 1972. *Malta: an archaeological guide*. London: Faber and Faber.
- Trump, D.H., 1995–6. Radiocarbon dates from Malta. *Accordia Research Papers* 6, 173–8.

- Trump, D.H., 2002. *Malta: prehistory and temples. (Malta's living heritage)*. Malta: Midsea Books.
- Trump, D.H., 2010. *Malta. An archaeological Guide*. Valetta: Allied Publications.
- Trump, D. H. & D. Cilia, 2008. *Cart-ruts and their Impact on the Maltese Landscape*. Sta. Venera, Malta: Heritage Books.
- Tucker, C.J., 1979. Red and Photographic Infrared Linear Combinations for Monitoring Vegetation. *Remote Sensing of the Environment* 8, 127–50.
- Tusa, S., 1983. *La Sicilia Nella Preistoria*. Palermo: Sellerio.
- Ugolini, L.M., 1934. *Malta. Origini Della Civiltà Mediterranea*. Roma: La Libreria dello Stato.
- van Andel, T.H., 1998. Paleosols, red sediments, and the Old Stone Age in Greece. *Geoarchaeology* 13, 361–3.
- Van Andel, T.J. & C. Runnels, 1987. *Beyond the Acropolis: A Rural Greek Past*. Stanford: Stanford University Press.
- Van Andel, T., E. Zangger & A. Demitrack, 1990. Land use and soil erosion in prehistoric Greece. *Journal of Field Archaeology* 17, 379–96.
- Van der Hammen, T., T.A. Wijnstra & W.H. Van der Molen, 1965. Palynological study of a very thick peat section in Greece, and the Würm-Glacial vegetation in the Mediterranean region. *Geologie en Mijnbouw* 44, 37–9.
- Van Der Knijff, J.M., R.J.A. Jones & L. Montanarella, 2000. *Soil Erosion Risk Assessment in Europe*. Brussels: European Soil Bureau.
- Van der Leeuw, S. & C. Redman, 2002. Placing archaeology at the center of socio-natural studies. *American Antiquity* 67, 597–605.
- Van Geel, B., 1978. A palaeoecological study of Holocene peat bog sections in the Netherlands and Germany based on the analyses of pollen, spores, and macro – and microscopic remains of fungi, algae, cormophytes and animals. *Review of Palaeobotany and Palynology* 25, 1–120.
- Van Geel, B., S.J.P. Bohncke & H. Dee, 1981. A palaeoecological study of an upper Late Glacial and Holocene sequence from 'De Borchert', The Netherlands. *Review of Palaeobotany and Palynology* 31, 367–448.
- Van Geel, B., G.R. Coope & T. van der Hammen, 1989. Palaeoecology and stratigraphy of the lateglacial type section at Usselo (the Netherlands). *Review of Palaeobotany and Palynology* 60, 25–129.
- van Geel, B., J. Buurman, O. Brinkkemper, J. Schelvis, A. Aptroot, G. van Reenen & T. Hakbijl, 2003. Environmental reconstruction of a Roman Period settlement site in Uitgeest (The Netherlands), with special reference to coprophilous fungi. *Journal of Archaeological Science* 30, 873–83.
- Van Leusen, P.M., 2002. *Pattern to Process: Methodological Investigations into the Formation and Interpretation of Spatial Patterns in Archaeological Landscapes*. University of Groningen.
- Vayda, A.P. & R.A. Rappaport, 1968. Ecology, cultural and non-cultural, in *Introduction to Cultural Anthropology*, ed. J.A. Clifton. Boston: Houghton Mifflin, 477–97.
- Vayda, A., J.C. Woodward, M.G. Macklin & J. Lewin (eds.), 1995. *Mediterranean Quaternary River Environments*. Rotterdam: Balkema.
- Vella, C., 2009. The lithic toolkit of Late Neolithic Ta' Hagra, Malta. *Origini* 31, 85–103.
- Vella, C., 2010. 'The Mediterranean context of the art and architecture of medieval Malta.' Unpublished MA thesis, University of Malta.
- Vella, E., 2002. The archaeological legacy, in Catania, J. (ed.) *Mellieha through the tides of time*. Malta: Mellieha Local Council, 25–40.
- Vella, N.C., 1998. 'Ritual, Landscape, and Territory. Phoenician and Punic Non-Funerary Religious Sites in the Mediterranean: An Analysis of the Archaeological Evidence.' Unpublished PhD, University of Bristol.
- Vella, N.C., 1999. 'Trunkless legs of stone': debating ritual continuity at Tas-Silg, Malta, in *Facets of Maltese Prehistory*, eds. A. Mifsud & C. Savona-Ventura. Malta: The Prehistoric Society of Malta, 225–39.
- Vella, N.C., 2005. Phoenician and Punic Malta. *Journal of Roman Archaeology* 18, 436–50.
- Vella, N. C. 2014. The invention of the Phoenicians: on object definition, decontextualization and display, in *The Punic Mediterranean: Identities and Identification from Phoenician Settlement to Roman Rule*, eds. J.C. Quinn & N.C. Vella. Cambridge: Cambridge University Press, 24–41.
- Vella, N. & M. Anastasi 2019. Malta and Gozo, in *The Oxford Handbook of Phoenician and Punic Studies*, eds. C. López-Ruiz & B. R. Doak, Oxford: Oxford University Press, 553–68.
- Vella, N.C., A. Borg, B. Borg, N.J. Cardona, K. Chetcuti-Bonavita, A. Corrado, E. De Gaetano, K. Fenech, C. Sagona, J. Zamut-Tagliaferro & I. Vella Gregory, 2001. Report on the excavation of a Punic tomb, Bajda Ridge, Xemxija (Malta). *Malta Archaeological Review* 5, 16–22.
- Vella, N. C., A. Bonanno, M. Anastasi, B. Bechtold, R. Farrugia, K. Fenech, D. Mizzi, L. Verdonck & A. R. Zammit. 2017. A view from the countryside: the nature of the Late Punic and Early Roman activity at the Żejtun Villa site, Malta. *Rivista di Studi Fenici* 45, 109–43.
- Vella, S.J., 2000. The Status of Soil Mapping in the Maltese Islands, in *The European Soil Information System, Proceedings of a Technical Consultation Rome, Italy, 2–3 September 1999*. (European Soil Bureau European Commission and Food and Agriculture Organisation of the United Nations.) Rome: FAO.
- Vella, S.J., 2001. Soil information in the Maltese Islands, in *Soil Resources of Southern and Eastern Mediterranean Countries*, eds. P. Zdruli, P. Steduto, C. Lacirignola & L. Montanarella. Bari: Centre International de Hautes Etudes Agronomiques Méditerranéennes, 171–91.
- Vella, S.J., 2003. Soil Survey and Soil Mapping in the Maltese Islands: the 2003 Position, in *Soil Resources of Europe*, eds. R. Jones, B. Houšková, P. Bullock & L. Montanarella. (European Soil Bureau, Research Report No. 9.) Luxembourg: European Office for Official Publications of the European Communities, 235–44.
- Vellinga, M. & R.A. Wood, 2002. Global climatic impacts of a collapse of the Atlantic thermohaline circulation. *Climatic Change* 54, 251–67.
- Verhagen, J.W.H., A.G. Posluschny & A. Danielisova, 2011. *Go Your Own Least Cost Path. Spatial Technology and Archaeological Interpretation*. Oxford: Archaeopress-British Archaeological Reports.

- Verhagen, P. & K. Jeneson, 2012. A Roman Puzzle. Trying to Find the Via Belgica with GIS, in *Thinking Beyond the Tool. Archaeological Computing and the Interpretive Process*, eds. A. Chrysanthi, P. Murrieta-Flores & C. Papadopoulus. Oxford: Archaeopress, 123–30.
- Verhaye, W. and G. Stoops, 1974. Micromorphological evidences for the identification of an argillic horizon in terra rossa, in *Soil microscopy: Proceedings of the Fourth International Working Meeting on Soil Micromorphology*, ed. G.K. Rutherford. Kingston: Limestone Press, 817–31.
- Verstraeten, G. & J. Poesen, 2001. Factors controlling sediment yield from small intensively cultivated catchments in a temperate humid climate. *Geomorphology* 40, 123–44.
- Viruel, J., F. Medail, M. Juin, A. Haguenaue, G.N. Feliner, M. Bou Dagher Kharrat, S. La Malfa, L. Ouahmane, H. Sanguin & A. Baumel, 2016. Mediterranean carob populations, native or naturalized? A continuing riddle. *OPTIMA XV*, June 2016. Montpellier, France. <https://hal.archives-ouvertes.fr/hal-01794260>
- Vita-Finzi, C., 1969. *The Mediterranean Valleys*. Cambridge: Cambridge University Press.
- Vogel, J.S., J.R. Southen, D.E. Nelson & T.A Brown, 1984. Performance of catalytically condensed carbon for use in accelerator mass spectrometry. *Nuclear Instruments and Methods* 223 (B5), 289–93.
- Vossmerbäumer, H., 1972. Malta, ein Beitrag zur Geologie und Geomorphologie des Zentralmediterranean Raumes. *Wurzburger Geographische Arbeiten* 38, 1–213.
- Wainwright, J. & J.B. Thornes, 2004. *Environmental issues in the Mediterranean: Processes and Perspectives from the Past and Present*. London: Routledge Taylor.
- Walker, B., C.S. Holling, S.R. Carpenter & A. Kinzig, 2004. Resilience, adaptability and transformability in social-ecological systems. *Ecology and Society* 9 (2), 5 (<http://www.ecologyandsociety.org/vol9/iss2/art5/>).
- Wallace, A.R., 1892. *Island Life* (2nd and revised edition). London: Macmillan and Co.
- Ward-Perkins, J.B., 1938–9. Tombs at Mtarfa. *Annual Report of the National Museum of Archaeology, Malta*, 12.
- Ward-Perkins, J.B., 1942. Problems of Maltese Prehistory. *Antiquity* 16 (61), 19–35.
- Waters, C.N., J. Zalasiewicz, C. Summerhayes, A.D. Barnosky, C. Poirier, A. Gałuszka, A. Cearreta, M. Edgeworth, E.C. Ellis, M. Ellis, C. Jeandel, R. Leinfelder, J.R. McNeill, D. de B. Richter, W. Steffen, J. Syvitski, D. Vidas, M. Wagreich, M. Williams, A. Zhisheng, J. Grinevald, E. Odada, N. Oreskes & A.P. Wolfe, 2016. The Anthropocene is functionally and stratigraphically distinct from the Holocene. *Science* 8, 351.
- Webster, D. & S.T. Evans, 2005. Mesoamerican civilization. In *The Human Past: A Textbook of World Prehistory*, ed. C Scarre. London: Thames & Hudson, 594–639.
- Weissel, J.K., L.F. Pratson & A. Malinverno, 1994. The length-scaling properties of topography. *Journal of Geophysical Research: Solid Earth* 99, 13997–14012.
- Weninger, B., E. Alram-Stern, E. Bauer, E. Clare, U. Danzeglocke, O. Jöris, C. Kubatzki, G. Rollefson, H. Todorova & T. van Andel, 2006. Climate forcing due to the 8200 cal yr BP event observed at Early Neolithic sites in the eastern Mediterranean. *Quaternary Research* 66, 401–20.
- Wettinger, G., 1969. The Militia list of 1419–20: a new starting point for the study of Malta's population. *Melita Historica* 2, 80–106.
- Wettinger, G., 1975. The Lost Villages and Hamlets of Malta, in *Medieval Malta, Studies on Malta Before the Knights*, ed. A.T. Luttrell. London: British School at Rome, 181–216.
- Wettinger, G., 1982. Agriculture in Malta in the Late Middle Ages, in *Proceedings of History Week*, ed. M. Buhagiar. Malta: The Historical Society, 1–48.
- Wettinger, G., 2000. *Place-Names of the Maltese Islands*. Malta: PEG.
- Wettinger, G., 2011. Malta in the high middle ages. *Melita Historica (Malta)* 15 (4), 367–90.
- Wheatley, D.W. & M. Gillings, 2002. *Spatial Technology and Archaeology. The Archaeological Applications of GIS*. London-New York: Taylor & Francis.
- White, D.A., 2015. The Basics of Least Cost Analysis for Archaeological Applications, *Advances in Archaeological Practice* 3 (4), 407–14.
- Whittle, A., 1996. *Europe in the Neolithic: The Creation of New Worlds*. Cambridge: Cambridge University Press.
- Whitley, T.G. & L.M. Hicks, 2003. A GIS approach to Understanding potential prehistoric and historic travel corridors. *Southeastern Archaeology* 22, 77–91.
- Wiener, M.H., 2013. 'Minding the Gap': Gaps, Destructions, and Migrations in the Early Bronze Age Aegean. Causes and Consequences. *American Journal of Archaeology* 117 (4), 581–92.
- Wiersma, A.P. & H. Renssen, 2006. Model-data comparison for the 8.2 ka BP event: Confirmation of a forcing mechanism by catastrophic drainage of Laurentide Lakes. *Quaternary Science Reviews* 25, 63–88.
- Wigand, P. & M. McCallum, 2017. The Varying Impact of Land Use and Climate in Holocene Landscape Dynamics in the Mezzogiorno. *Journal of Mediterranean Studies* 3 (2), 121–50.
- Willgoose, C. & G. Hancock, 1998. Revisiting the hypsometric curve as an indicator of form and process in transport-limited catchment. *Earth Surface Processes and Landforms* 23, 611–23.
- Williams, A.N., 2012. The use of summed radiocarbon probability distributions in archaeology; a review of methods. *Journal of Archaeological Science* 39, 578–89.
- Wilson C.A., D.A. Davidson & M. Cresser, 2005. An evaluation of multielement analysis of historic soil contamination to differentiate space use and former function in and around abandoned farms. *The Holocene* 15 (7), 1094–9.
- Wilson, C.A., D.A. Davidson & M. Cresser, 2009. An evaluation of the site specificity of soil elemental signatures for identifying and interpreting former functional areas. *Journal of Archaeological Science* 36, 2327–34.
- Wilson, C.A., D.A. Davidson, S. Malcolm & M. Cresser, 2008. Multi-element soil analysis: an assessment of its potential as an aid to archaeological interpretation. *Journal of Archaeological Science* 35, 412–24.
- Wilson, M.A. & D. Righi, 2010. Spodic materials, in *Interpretation of Micromorphological Features of Soils and Regoliths*, eds. G. Stoops, V. Marcelino & F. Mees. Amsterdam: Elsevier, 251–73.

- Wischmeier, W.H. & D.D. Smith, 1978. *Predicting Rainfall Erosion Losses: A Guide to Conservation Planning*. Agriculture Handbook 537. Washington: USDA.
- W.R.B., 2014. *World Reference Base for Soil Resources*. World Soil Resources Report No. 106. Rome: F.A.O.
- Wright, H.E. Jr., J.H. McAndrews & W. van Zeist, 1967. Modern pollen rain in western Iran, and its relation to plant geography and Quaternary vegetational history. *Journal of Ecology* 55, 415–43.
- www.alsglobal.com>europe>west>spain>andalucia (Seville – Geochemistry)
- www.calib.org (CALIB Marine Reservoir Correction CAL-IBomb IntCal)
- www.geog.cam.ac.uk/facilities/laboratories/techniques/psd.html
- Wyatt, A.R., 1993. Continental size, eustasy and sediment yield. *Geologische Rundschau* 82, 185–8.
- Yaalon, D.H., 1997. Soils in the Mediterranean region: what makes them different? *Catena* 28, 157–69.
- Yaalon, D.H. & E. Ganor, 1973. The influence of dust on soils during the Quaternary. *Soil Science* 116, 146–55.
- Yan, H., J. Liu, H.Q. Huang, B. Tao & M. Cao, 2009. Assessing the consequence of land use change on agricultural productivity in China. *Global and Planetary Change* 67, 13–19.
- Yellin-Dror, A., M. Grasso, Z. Ben-Avraham & G. Tibor, 1997. The subsidence history of the northern Hyblean plateau margin, southeastern Sicily. *Tectonophysics* 282, 277–89.
- Zabenskie, S. & K. Gajewski, 2007. Post-glacial climatic change on Boothia Peninsula, Nunavut, Canada. *Quaternary Research* 68, 261–70.
- Zacharias, N., Y. Bassiakos, B. Hayden, K. Theodorakopoulou & C.T. Michael, 2009. Luminescence dating of deltaic deposits from eastern Crete, Greece: Geoarchaeological implications. *Geomorphology* 109, 46–53.
- Zammit, M.-E., 2006. 'An Archaeological Survey of Bahrija.' Unpublished M.A. thesis, Department of Classics and Archaeology, University of Malta.
- Zammit, T. 1928a. *The Neolithic Hypogeum at Hal-Saftieni. Casal Paula-Malta*. Valletta: Empire Press.
- Zammit, T. 1928b. Prehistoric cart-tracks in Malta. *Antiquity* 2 (5), 18–25.
- Zammit, T., 1930. *Prehistoric Malta, the Tarxien Temples*. Oxford: Oxford University Press.
- Zammit Ciantar, J., 2002. *Life in Ghar il-Kbir*. Malta: Dingli Local Council.
- Zammit-Maempel, G., 1977. *An outline of Maltese Geology and guide to the geology hall of the National Museum of Natural History, Mdina, Malta*. Malta: Progress Press Co. Ltd.
- Zanchetta, G., R. Sulpizio, N. Roberts, R. Cioni, W.J. Eastwood, G. Siani, B. Caron, M. Paterne & R. Santacroce, 2011. Tephrostratigraphy, chronology and climatic events of the Mediterranean basin during the Holocene: An overview. *The Holocene* 21, 33–52.
- Zealand, A.M. & M.J. Jeffries, 2009. The distribution of pond snail communities across a landscape: separating out the influence of spatial position from local habitat quality for ponds in south-east Northumberland, UK. *Hydrobiologia* 632, 177–87.
- Zeder, M.A., 2008. Domestication and early agriculture in the Mediterranean Basin: Origins, diffusion, and impact. *Proceedings of the National Academy of Sciences, USA* 105 (33), 11597–604.
- Zettler, M.L. & D. Daunys, 2007. Long-term macrozoobenthos changes in a shallow boreal lagoon: comparison of a recent biodiversity inventory with historical data. *Limnologica-Ecology and Management of Inland Waters* 37 (2), 170–85.
- Zielhofer, C. & D. Faust, 2008. Mid- and Late Holocene fluvial chronology of Tunisia. *Quaternary Science Reviews* 27, 580–8.
- Zielhofer, C., J. Bussmann, H. Ibhouten & K. Fenech, 2010. Flood frequencies reveal Holocene rapid climate changes (Lower Moulouya River, northeastern Morocco). *Journal of Quaternary Science* 25, 700–14.
- Zielhofer, C., W.J. Fletcher, S. Mischke, M. De Batist, J.F.E. Campbell, S. Joannin, R. Tjallingii, N. El Hamouti, A. Junginger, A. Stele, J. Bussmann, B. Schneider, T. Lauer, K. Spitzer, M. Strupler, T. Brachert & A. Mikdad, 2017a. Atlantic forcing of Western Mediterranean winter rain minima during the last 12,000 years. *Quaternary Science Reviews* 157, 29–51.
- Zielhofer, C., H. von Suchodoletz, W.J. Fletcher, B. Schneider, E. Dietze, M. Schegel, K. Schepanski, B. Weninger, S. Mischke & A. Mikdad, 2017b. Millennial-scale fluctuations in Saharan dust supply across the decline of the African Humid Period. *Quaternary Science Reviews* 171, 119–35.
- Zilhão, J., 2001. Radiocarbon evidence for a maritime pioneer colonisation at the origins of farming in West Mediterranean Europe. *Proceedings of the National Academy of Sciences, USA* 98, 14180–5.
- Zolt, M.S. & S. Dombay, 2012. Determining minimum hiking time using DEM. *Geographica Napocensis* 6 (2), 124–9.